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COMPANION

We Study to Instruct; We Endeavor to Amuse.

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LONDON, ONT., APRIL, 1877.

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Editorial.

Denominational Schools.

THE STRUGGLE IN MANIFORA.

nominational schools is one that has been bitterly religion in any municipality may dissent, and esof warm contention among our neighbors across sioners have in respect of Common Schools. objects for which schools are established. former regard the school, in addition to the objects instruction, and to develop the intellectual and but not within legal school hours. moral faculties.

In Ontario the Separate School agitation first many as five Acts or amendments affecting the Separate Schools. But dissatisfaction still existed, and after a violent controversy the Roman Catholic Separate School Act of 1855 was passed. the course of a few years, the Act was denounced, and the Bill known as "Scott's amended Separate School Act" was introduced in 1860, pressed with modifications each time, in 1861 and 1862, and finally passed in 1863. Agitation was again resumed in 1865, but it appears to have been chilled by the following published statement of Dr. Rycrson :--

"If, therefore, the present Separate School law is to be maintained as a final settlement of the question, and if the Legislature finds it necessary to legislate on the Separate School question again, I pray that it will abolish the Separate School law altogether; and to this recommendation I am forced, after having long used my best efforts to maintain and give the fullest and most liberal application to successive Separate School Acts, and after twenty years' experience and superintendence of our Common School system."

Since 1865 the question has lain at rest in Ontario. Supporters of R. C. Separate Schools are exempted from taxation for Public School purposes, and they are vested with ample powers for the collection of their own rates.

In the Province of Quebec, after much discussion The question of denominational cersos under the law was framed (1860) so that the minority in fought in nearly every Province in the Canadian tablish Dissentient Schools, the trustees of such Confederation. It has been, and is yet, a subject schools having the same powers as the Commis-The cause of this appears to be in the ligious teaching is acknowledged as a distinctive fact that many Roman Catholics are at variance feature of the Quebec system. In the schools that with the great Protestant majority regarding the are not Roman Catholic, Protestant ministers are The expected to give the religious teaching.

In New Brunswick and Nova Scotia, the Separgiven below, as a branch of the Church, in fact, ate School agitation failed to accomplish as much call it "the child's Church," and make the teach- as in Ontario and Quebec, but a compromise was ing of the doctrines of the Roman Catholic Church, effected which, if carried out in good faith, should effected which, if carried out in good faith, should an integral part of the ordinary work of the prove satisfactory. In Roman Catholic Sections, The latter view the school as an establically certificated teachers of the same faith are to lishment whose chief object is to impart secular be appointed. Peligious instruction may be given,

In New Brunswick feeling had run too high to admit easily of giving the law a fair trial. During engaged attention about 1540, and in rather more, such seasons unwarrantably strong assertions are than the ensuing decade the Legislature adopted as apt to be made, and the makers stand by them even at a sacrifice. Winners rancorously press their gains, and losers give unnecessary and sometimes unreasoning opposition. Quite recently Bishop Sweeney permitted the seizure of his carriage to pay the Common School tax assessed on the Catholic Schools in the town of Portland, N. B.

Prince Edward Island was the next to undergo a severe conflict on this question. It was fought last year with great bitterness. The majority carried the undenominational system, but the struggle is hardly over yet, as the School Bill is now before the Legislature.

In Manitoba at the present time, the public question of greatest moment is whether the school system is to be "denominational" or "national." At present there is a Central Board of Educatic which resolves itself into "two committees, sections, one consisting of the Protestant, the other of the Roman Catholic members thereof, and the matters and things which by law belong to the Council are referred to the said committees Each committee licenses its own respectively."

arrangement.

The views of the advocates of non-sectarian toba Act declares :-schoolshave been set forth in nine resolutions, unaniwhich the following is the gist . -

1st. That the present Act of Education of Manitoba does not meet the requirements of the growth of the Province.

2nd. Experience proves a non-sectarian system better adapted than any other for mixed communi-

3rd. That the conscience plea is fallacious, inasby defect, and not only do not interpose obstacles to thousands of strict Catholics have been educated than the Manitoba Act. in such schools.

Catholic and Protestant should be obliterated, as it is unjust to expend the revenues of the Province in teaching the doctrines of one particular church out of five or six.

5th. That this division line increases expenses. 6th. That the education given under the present system is inferior in character.

7th. That when there are too few Catholic famihes in a neighborhood to support a school, rather Suggestions on Teaching Arithmetic. than allow the children to attend a school Protestant in name they are permitted to grow up in ignorance.

Sth. Where there are but few Protestant families in a Catholic neighborhood their children are growing up in pitiable ignorance, their parents. having to choose between that alternative, and their being taught doctrines which they cannot receive.

9th. That it is a crime for the State to allow the members of its future governing body to come into possession of their rights unfit to use them; that the State is bound to establish such a system of education as will best prepare its citizens for the intelligent use of their franchise; that in a Provenuch favor, and deservedly so, being suited to alince where the elements of the population com- most every style of problem. It is a great pity prise those who speak English, French, German we have no work treating on the subject more and Icelandic-the establishment of one system of fully. Allow me to remark here that I am of the and Icelandic-the establishment of one system of public English schools is the only means of fitting the people for conducting business efficiently, for continent, they could not have selected one less fulfilling the duties of social life, for preserving the rights of all,—irrespective of class or creed, and here is very desirable. No doubt Dr. McLellan for carrying on successfully the affairs of the shares this opinion to some extent as he has re-State.

The present system has been defended vigorc asly in press and pamphlet within the present year, and

teachers, and makes regulations for its own schools. change is ultra rires the Provincial Legislature, and There seems to be great dissatisfaction with the that only the Imperial authority can give such power. The twenty-second section of the Mani-

"In and for the Province the said Legislature mously adopted by the Winnipeg School Board, of may exclusively make laws in relation to Educa-, tion, subject and according to the following provisions :--

> (1) Nothing in any such lew shall projudicially affect any right or privilege with respect to denominational schools which any class of persons have by jaw or practice in the Province at the Union."

This section is tho same as that of the British North America Act, which guarantees the protection of much as non-sectarian schools fail to teach religion the Protestant or Roman Catholic minority in relation to education, except that the B. N. A. Act religious instruction out of school hours, but does not contain the clause "or practice," and conrather prepare the mind for its reception; and that sequently is less favorable to the Separate School

On the other hand it is claimed by the opponents 4th. The division line made by the Act between of the present system that at the time of passing the above cited Act, neither Protestant nor Catholie possessed any right or privilege in a technical sense. This may be the case, but it seems to us a hard position to maintain.

Contributed.

BY M. A. JAMES, HEAD MASTER, BALTIMORE PUBLIC SCHOOL

So highly is a knowledge of arithmetic appreciated that comment on the value of the subject is scarcely necessary. Affording, as it does, when properly studied, facilities for disciplining the mental faculties equal to Euclid or any other sciences or classics, it should receive attention commensurate with the importance of the subject.

No doubt there has been great improvement in the treatment of the subject within the last decade; but there is still great room for further improvement.

In examining the papers of candidates trained under different instructors, it is surprising to see opinion that, if the Council of Public Instruction commended teachers and students to get Hamblin Smith's Arithmetic. But I am digressing

In introducing arithmetic to a class of beginners concrete numbers should invariably be used. as vigorously opposed. Those who defend the child has no idea of number unless in connection system take consolation in the belief that the with objects. Fully two-thirds of the time spent in teaching arithmetic to beginners should be given to mental exercises.

The old system of first learning the rule and then "doing the sum" is fast becoming a thing of the past. The rule is best learned by working the question, analyzing the principles, and explaining the reasons.

To require a pupil to learn and understand a self. rule before he is permitted to see its principles illustrated by simple practical examples, places him somewhat in the position of the boy who was forbidden by his i other to go into the water till

he had learned to swim.

In order to teach arithmetic, as well as other subjects, successfully, the teacher should have a thorough knowledge of the subject, a love for the employment, and an aptitude to teach. These are indispensable to success. The subject should be taught in classes; much time is saved by this Considerable time should be devoted to oral illustrations in each class. Individual assist-If the class is enance should be seldem given. gaged at an exercise they should work all the problems they can, marking any they cannot solve. Those difficult problems should be considered at the next recitation—the principle pointed out and be practical, be vigilant, and success is sure to fol-indirect assistance given. Should any member of low your efforts.

the class be successful in solving it, he should, after sufficient time has elapsed, go to the blackboard and show his work.

The action of mind upon mind is also a powerful BY S. G. BEATTY, PRINCIPAL OF ONTARIO BUSINESS stimulant, in a class, to exertion, and will usually create a zest for the study. The mode of analyzing and reasoning, too, of one scholar often suggests

new ideas to others in the class.

The class should be composed of pupils of, as nearly as possible, equal capacities and attainments. If any of the class learn more quickly than others,

of the blackboard. When a principle is to be de-scarcely yet been thought of, except by such teachmoustrated, or an opinion explained, if done upon ers as make a specialty of the subject. the blackboard, all can see and will usually understand it at once. also be used in illustrating squares, cubes, solids, and many other points in arithmetic. should be without them.

ing a lesson in arithmetic, viz., that of disciplining and social relations of life. the mind, and making a practical application of calling, vocation or profession of which it is not the principles involved. Many teachers overlook, the mouth-piece. It embodies thoughts in a visithese two objects and therefore are not successful ble language. Under its magic power ideas assume in teaching the sub, et. Their pupils may be able tangible form, and the eye may trace the operations

problem is given.

while they loathe dullness. Every example should, advertisements of business men, for clerks, bookbe analized, the "why and wherefore" of every keepers, etc., and it will be observed that they step in the solution should be required, till the usually require the applicant to apply in his own learner becomes perfectly familiar with the process hand-writing.

of reasoning.

The motto of every teacher should be thorough-Without it the great ends of the study are pression in his favor. defeated. In securing this object, much advantage scarcely any position in which a man may be placed is derived from frequent reviews. Not a recitation where a good hand-writing will not be of great should pass without practical exercises being given value. It is always admired and appreciated. besides those assigned for the lesson.

Mental exercises, as I said before, are very useful. They make ready and accurate arithmeticians and afford excellent means to arrest and prevent habits

of mechanical cyphering and copying

The habit of telf-reliance is invaluable in study. To acquire this habit the pupil, like a child learning to walk, must be taught to depend upon him-Therefore, when assistance is required, it should be given indirectly; not by taking the slate and solving the problem for him, but by explaining the meaning of it, or illustrating the principle on which the operation depends, by sup-posing a familiar case. In this way the pupil will be able to solve the questions himself, and his eyo will sparkle with the consciousness of victory.

The pupil should also be expected to solve examples independently of the answers. Without this attainment the pupil receives but little or no discipline from the study, and is unfit to be trusted with business calculations. What though he should come to the class with an occasional wrong answer? It is better to solve one question understandingly and alone, than to copy an hundred answers from

the book. Then, to recapitulate : be lively, be thorough,

Penmanship in Public Schools.

COLLEGE, BELLEVILLE.

The importance of Penmanship as a branch of study in our public schools is of late years be-ginning to be properly appreciated. The question, "Can all children of average ability and a proper use of the muscles of arms and hands, be taught they should take up an extra study, or be given to write a good hand? —so often asked, is now additional examples to solve, so that the whole answered in the affirmative by every qualified, exclass may advance together.

The blackboard should be the teacher's slate. question in natural order—"How can this grand Scarcely a recitation should pass without the use result be best and somest brought about?" has of the blackboard. When a principal is to be described to the property such teach.

A moment's reflection will suffice to convince any Geometrical diagrams should one of the importance of this art. Its diffusion is nes, solids, so general among all classes that it may with pro-No school priety be styled the universal art. Turn our thoughts which way we will, we find the art of Two objects, at least, should be aimed at in giv- writing intimately connected with all commercial g a lesson in arithmetic, viz., that of disciplining and social relations of life. There is no trade, to do all the question: under the rule in the book, of the mind. As a qualification for business it is but fail in applying the principle when a practical of the first importance, and often goes far in the mind of an employer towards making up for other deficiencies. When a young man goes in pursuit The attention of the class can easily be secured deficiencies. When a young man gres in pursuit by throwing life and variety into the exercise, of employment, the first thing he is asked to do is Animation and variety always delight children, to give a sample of his hand-writing. Read the Let a man in business circles step up to a desk and write some document in a clear, free, bold hand, and he will at once create an impression in his favor. The truth is, there is

When we reflect, and take into consideration it

· importance in all the relations of life, is it not many teachers engaged in the work who never use strange that it occupies a place in the background in the great majority of our schools? It is submitted in all cander, in view of its importance, if the art of writing should not be placed in the foreground of our educational plans. Is not its natural order next to that of reading? Is not its importance second to none but that? But what are the facts in the case? Until very recently it has almost been ignored as a branch of study in our publie schools. While we are in advance of the United States in many branches of science, we are far behind them in penmanship. A reform so sadly needed in this country is now being brought about.

In most of our cities and important towns this subject is of late receiving special attention. many instances, writing masters who teach this subject scientifically and upon principles as clear and satisfactory as that of other branches, have recently been employed, and the results of such criticise and explain penmanship, even though he teaching convince us that it is only through means be not a good penman himself, and keeps up an in-

ence of our public school system.

While satisfactory evidences of progress and improvement are now manifesting themselves in our large schools, located in towns and cities and It is often asked. "Which is preferable; enpossessing special advantages, country schools, regraved or written copies?" My answer is, that presenting by far the largest part of our school c graved copies are decidedly the best in any population, we find in many instances still encum-bered by the ancient methods of instruction followed by our forefathers, viz., Imitation and Prac-These terms, in their vaguest sense, seem to have complete possession, not only of the public are the means relied on as the subjects for imitation mind, but also of the minds of the majority of the learners, until such time as the mind becomes teachers.

The writing exercise is, consequently, in many schools an unmeaning and uninviting ceremony, willingly omitted or laid aside for those of a more it is designed shall be imitated, and should be so interesting, but not more important nature.

While it is indeed true that Imitation and Practice are the chief means by which penmanship is form, slant, shade, spacing, and all the other characquired, it is all important to the pupil to know acteristics of good writing. It is not for me to how to imitate and how to practice, that the best speak disparagingly of the writing of our teachers. attainable results may be arrived at in the shortest! I know that there are among them some excellent possible time.

In order to effect this, the chalk and blackboard tion is, can the handwriting of all our teachers, must be freely used by the teacher in connection required to teach this subject, be presented as with every writing lesson, and the proper mode of

practicing the copy fully explained and illustrated.
In early boyhood I attended a number of different public schools, and was instructed therein by the different steps in its acquisition, and a rigid on less than ten different teachers. While many ladherence to the Fundamental principles of the of these were well qualified, able, and practical Art; and, above all, the ability to stimulate enteachers of other subjects, not one of them knew decayor in the pupil, whether by the teacher's own

explain writing lessons.

this subject and write head-lines for imitation, or, in case engraved copies were used, their time was devoted to some of the junior classes, and those engaged at penmanship were aboved to practice in his model and guide in his modus operandi, as in accordance with the dictates of their own fancy. The consequence was that some pupils would be writing one copy and some another; and instead of practicing carefully and critically, the object in most instances would be to see who could get over the greatest space in a given time.

the blackboard in connection with their writing lessons, and as a natural result their pupils show far less improvement than those who have been sufficiently fortunate to be under more practical and enthusiastic teachers.

Success in the management of writing classes, whother in public schools or colleges, depends almost entirely upon a proper use of the blackboard.

The live practical teacher will first explain the copy on the board, then call the attention of his class to the errors in formation, slant, shade, spacing, turns, &c., that they are liable to run into; point out the way to avoid them, and by a few pointed and well-timed remarks inspire an insterest In eand enthusies in in his pupils which will occasion his them to practice with that zeal and critical carnestness which ensures success. I venture tho assertion that any teacher who understands how to of proper and systematic instruction that the de-terest in his pupils by a free and proper use of sideratum of a good hand-writing can be procured blackboard illustrations, will be able to show more by every pupil that comes fairly under the influ-timprovement in three weeks time than those adopting the old plan of allowing a class to imitate and practice according to individual fancy can in as many months.

school or college in which there is not a professional pensman, or a tescher who can write sufficiently well that his copies may be used as proper models for mutation. For the following reasons - Copies sufficiently impressed with the forms and essentials of good writing to dispense with them. Copies should therefore contain that, and that only, which executed and presented as to develope in the mind of a learner the clearest and most definite ulcal or penmen and many very bad writers. The quesproper models for the imitation of pupils?

The difference between success and failure in teaching permanship lies in a clear conception of how to teach penmanship properly, or ever at skill as a penman, or his power to control and tempted the use of the blackboard to illustrate and direct to successful results by black-board illustrations and criticisms as formerly explained.

The course usually pursued by these teachers It must be recognized that the lesson in Writing was to sit at their desk during the time allotted to is an active exercise, in which both teacher and pupil It must be recognized that the lesson in Writing are to participate for the purpose of promoting dexterity in the use of the pen by the pupil, and that the pupil naturally looks to the teacher for does to his copy for the matter to be written.

Hence it follows that the teacher must be on the alert, active, wide awake, and attentive to the work in hand, and thus furnish a proper personal example for the pupil's imitation, as well as the precepts which are to guide his performance.

No exercise of the schoolroom calls for more

This style of teaching penmanship is still in vogue No exercise of the schoolroom calls for more in many of our public schools. There are still physical exertion on the part of the teacher than in-

struction in permanship. After the explanation out the mistakes they are likely to run into and is given on the board each pupil should be visited at his seat, and directed in nosition and movement, and be given free opportunity to watch the teacher's motions in writing an occasional word or copy. His attention should, moreover, be directed to the manner of taking and holding the pen, managing ink and paper, place of starting each letter and manner of forming and combining them in words, as well as arranging them in lines and columns.

HOW TO INSTRUCT PRIMARY CLASSES

While I am decidedly in favor of teaching the more advanced pupils by elements, principles, de., I do not believe in introducing them at the outset. The first lesson in writing should be made as simple as possible; should be mere exercises to untiate while learning penholding, position and movement. I do not believe in parading principles, symbols, &c., before beginners, as is done in the elementary copy books of most systems of penmanship; in giving them exact seionce represented by the Quadrant, with its 90 degree a, enveloping and obscuring the copies with a cloud of sentenious instructions, impossible for a child to understand.

Appeals to mature judgment, logical reason, cultivated taste, mathematical knowledge and accumulated skill and experience, are all right in their place, but should not be paraded before the timid

youth just beginning penmanship.

The first lessons should be copies of simple letters to be practised on slates; and the plan I have seen successfully adopted is to have the slates all ruled on one side with light permanent lines, properly spaced. The time devoted to each exercise should be about half-an-hour, or not sufficiently long to weary the pupils. The pencils should be of sufficient length to be held like pens, and the in position, pencil-holding, preparing for the exmanner of holding them should be very carefully crosse, and closing. About one-half the time dur-

On account of the liability of the pencils in common to break, it is a matter of economy and convenience to use those covered with wood, as they are both cheap and durable, or of the new patent pencil helder lately introduced in our schools.

The copy, as before intimated, should be as On the last school day of each week the pupils nearly perfect as possible in order that proper should be called upon to prepare a line of each proceed on the same plan as drawing, and indeed, can be termed nothing but pencil drawing of the

letters and words used in the copy.

On account of the tendency of young pupils to break slates and lose pencils, it is much better for the teacher to take charge of them. Monitors should be appointed to pass the slates and pencils. thoroughly understood by them. appointed as a mark of favor for proficiency or all good conduct, and taught to look upon the position as a very honorable o..e.

The plan of conducting the exercise may be

something after the following order :-1.—Prepare for writing: when all other work should be laid aside and desks cleared. A given signal should then bring up the monitors to pass slates and pencils.

proficiency of the class.

3.-Explain how you require it copied, and point

explain how they may be avoided.

4. Give the signal to commence writing. teacher should then pass around among the pupils correcting position at desk, pencil holdi , mis takes in formation, &c., until the exercise is about half over, when he should illustrate on the board the principal errors he has observed while passing around, and call on the pupils to name the differ unt mistakes in formation, &c., and tell how they should be corrected. The last five minutes should be devoted to criticism of the writing by the pupils themselves, permitting them to erase and correct

any letter with which they are not satisfied.
5.—The monitors should at the close bring up the slates and pencils and deposit them in their proper places, and when an opportunity is afforded they should be carefully examined and marked by

the teacher.

A certain number of recognized errors in the exercise may be counted a failure : a less number, imperfect; and no failures in leading features, may

constitute a perfect lesson.

A small record book should be kept, into which these marks should be entered; and in order that this may be readily done, the pupils should be numbered, and required to place their numbers conspiciously at the head of the slate, that they may be conveniently arranged with the highest number at the bottom of the pile, and so on up in regular order, for marking the standing, as the slates are examined.

These exercises, if properly carried on, will become very interesting to primary pupils, and they will look forward to the writing hour with plea-

The principal difficulty, at first, is drilling them ing the first week should be spent in drilling on these particulars.

Great care should be taken to explain all the errors for which they are to be held accountable beforehand, with ample illustrations upon the blackboard of correct and incorrect formation.

ideas of form may be impressed on the learner's copy, word, and figure practiced on the provious mind from the beginning. The first lessons must day, and from these copies and the merit marks of day, and from these copies and the merit marks of the week the monitors of the next week may be appointed.

This method may after a time be combined with the spelling exercise, and errors in both writing and orthography noted in the same exercise, us-

ing a distinct mark to indicate each.

As soon as they have been taught to form all the Their duties should be arranged in accordance with letters and combine them into words, short senten the scating of the school room, and should be ces should follow, and the child may thus be taught thoroughly understood by them. They may be to write before the pen and ink is introduced at

> The pupils should early learn to set value upon the neatness and craceful appearance of all the forms they write. Figures, being of equal importance with letters, should also be given special at-

tention

The objections made to the use of the pen and ink by small children is, that they are apt to blot and deface their books and injure clothing and 2.—Write the copy plainly on the board so that furniture. I would, however, advise the introduc the entire class may see it. Let it be a letter, a tion of the pen and paper as soon as the pupil has succession of letters, or a word, according to the made sufficient progress to use them with any degree of proficiency.

To be continued.

Letter from Belgium.

A TEACHERS' CONVENTION.

We have obtained the kind permission of Theo. for the Essex Record. The letter was written by a gentleman who has taught school in Canada, and

Nothing could be more imposing; and you may be sure that I followed, with the deepest interest, the discussions on the different subjects. You have of grammar in the elementary classes as a rules. Nothing but practice. This is opinion, and it is the reason why you so much to do your exerciless attention to your grammar in you. regard to the senior classes, the assemble as divided. The complete suppression of the "book" was proposed. A professor in the Ghent University opposed the idea strongly, and obtained twosity opposed the idea strongly, and obtained two-thirds of the votes; but I am satisfied that the lecture, showed the necessity of having a teacher other third, of which I was one, composed the in each canton (township) who would take the place most intelligent portion of the assembly. The of those absent or sick. teachers of both sexes in the country are not sufteachers of both soxes in the assembly. The teachers of both soxes in the country are not sufficiently prepared for this radical change; still it our Convention in Ghent, apart from all incidents will come, for I consider the grammar as a pest in our schools. The book is town to be used only by Those conventions do a great deal of good, for the senior classes as but a collection of rules, which when united, the teachers are strong. You need things, and not those common to everyone. This which sum we spend in visits throughout Belgium. is also my orinion. You see, my dear friend, that The railways grant us a reduction of 50 per cent. we are rapidly progressing in Belgium. It is with great joy that I see the old routine put aside, and ing the visits conduct themselves like little men;

I will certainly do my utmost to hasten its defeat. Books having the science as a base, are recommended, and not those containing vulgar expressions and foolery, &c We should also have for Girardot, Esq., I. P. S., to publish the following the use of the children, school libraries. As a letter literally trans | by him from the French conclusion we should have a museum in the school is order to teach object lessons with more success. There should be days appointed for walks in the Schaerbeek, Sept. 12, 1876.

DEAR FRIEND, —I would have written sooner, but I was waiting for the convention of the Bel, have been seen by the pupils should be taken note gran teachers, which took place at Ghent vester, day and to-day. We numbered about 1 2000. possible subjects taught, which entirely destroy the originality of the papil. This is the substance of all that has been said at Ghent on the maternal The convention also took notice of the perhaps read an account of it in the Progress, means that should be employed in order to develop therefore, I shall be brief. The question of the maternal tongue was the first on the programme, children were again proposed, as also the observa-and the teachers in their dehates upon said quest tion of nature, that of leaves, of flowers, which are tion, were manimous in prescribing the to thing the base of architecture and drawing; so you see of we are determined to have it thus. I am quite sure that such walks as I have above mentioned v shall become a part in our educational system. More time for the teaching of drawing has also been asked; the pupils should be required to draw n every day. Music must also form a part of the as elementary instruction. Gymnastics were men-I did not very well see the reciprocity.

can be referred to in any doubtful case. Mechanism union in Canada, and I am surprised that you do cal analysis is condemned. These sensible ideas not make a pressing appeal to your "confreres" that which you have on logical analysis developed, and they might imitate the Belgian teachers. Owing I think it should be the base of the grammatical to these conventions, we have done very much in instruction. Once the sentence is divided into Belgium. The newspapers take interest in our propositions, it is easy to dissect each one of sittings; they say:— "After all a teacher is somethem into words and indicate the functions of each; body." The time for indifference has passed; we one of these words; but let us not oblige pupils to have obtained a good law for our pensions; and our parso sentences of the style of those old practition- enemies dare not show themselves publicly. ers, whom you know. I shall say no more on that School corporations now fear ridicule in advertissubject, for I am certain that you understand me. Img for teachers at a low salary. School houses Spelling is condemned; we no longer want it, are now han some buildings; each section rivals Dictation must be carefully studied before given with the neighboring one, as to which will build out. The pupils must be sufficiently prepared, so the finest school house; the furniture is now as to write a dictation without a fault. This study healthy and commodious; the walls are covered is effected by reading, observation, &c. ** * with maps and eard boards. In some schools we way protond and with reason that a shild must already tind collections of plants animals inserts. We pretend, and with reason, that a child must already find collections of plants, animals, insects, see a word before writing it, and it is perfectly birds, &c. Since a few years the progress is in-useless, if not prejudicial, to make him write conceivable, and we can feel sure that it is owing words which he does not know. Are you of that to our union. I have already told you that you opinion? If you are, you have to reform that should never count on rapid progress, if you do principle also. Lessons by intuition must be com- not unite together. The Laval Normal School Aspletely transformed; you must no longer make the sociation is already-something, but still not enough, pupil say that the table has four legs, that it I do not wish to abandon the subject before serves to ... E. but you must speaking to you of our annual test of school walks. teach him something new; for example, the board | I have undertaken the direction of a course of the is made of the oak, and the latter springs from an kind, to be pursued during the vacations. We acorn, &c. The child must be initiated to the nather appealed to the parents and have already 30 tural sciences from this earliest age. He loves new white the parents and have already 30 tural sciences from the latter springs from an latter throughout Belgium.

they observe, judge, question, reason; etc. they observe, judge, question, reason; etc. If it has been through that book you mention more than was possible this should be the only means employed for the instruction of pupils, at least in tents of said book have not yet become assumilated certain branches. One day we sailed up a little to the dear boy himself. The process of digestion river, from its source to its mouth, and in half a is not yet completed, and you will agree that day the pupils understood the meaning of the terms, source, mouth, right bank, left bank, up hurriedly performed. If the boy could not answer river, down river, bed branch and conflux and those few easy questions decently, what could be several others which would have cortainly taken do where it must be taken for granted that he them two or three weeks to understand when exhaus all that part of the subject thoroughly? plaited in class. I am moreover quite sure that. Why, it would be like making him went boots three plaited in class. those terms are engraved in the memory of the sizes too large, or dressing him in his father's long-children. We have been on the sea shore, and as tailed coat. in all the other places, there was nothing but questions and explanations. On our way back, we the childrens' imperfect education, not merely one visited several monuments in the city of Bruges, as has been taken for granted. There is first of all There we find the whole history of the middle ages. the children themselves. If these two sweet pets We saw the tent of Charles the Rash, son of the are of the pumpered, self-willed, or imbedile type, Duko of Burgundy. Shall not this fact alone serve, the cleverest angel within the pearly gates of the to imprint in their memory the history of the celestial city would fail to teach them in such a kings of Burgundy? We have examined the way as to overcome these obstacles. Turkeys museum of natural history; one visit sufficed to unmay be fattened by eraniming food down their derstand the four great divisions of the animal throats, but there is absolutely no analogous prostill we will attain it.

derive some benefit from it. Yours truly,

PIERARD.

Atoms of Advice.

LAMBLES CLARKSON, B. A., DUNDAS,

ately to cast three small atoms of land advice into the world's great treasury of accepted or rejected counsel. I urged upon my young friends, the necessity of three things, viz., concentration, enthusiasm and thoroughness. My remarks were general, and intended indirectly, yet emphatically for teachers and parents as well as for it they are inclancholy hearers of lessons, dreary those directly addressed.

teresting and clever children Willie and Minnie not living, thinking, symphatic sculptors of the presented themselves at Examination and, in exhuman marble, why, then, let them suffer the pressive college phrase, were "plucked;" and I am odium, and bear the smart of censure. But sup-informed that the parents of these dear precious posing these teachers have honestly exerted themdarlings have ever since been in a state of chronic selves, have employed vigorously and kilfully

or anybody clse.

ledge by a process swifter than winking and more morning for non-preparation of lessons? abilities.

parents imagine they know. Of course, William; of those "terrible" words in that "dreadful" spel-

If it has been through that book you mention more than I am moreover quite sure that, Why, it would be like making him wear boots three

Thirdly, there are three parties responsible for We often make botanic excursions in cess for educating children. It is an impossibility. the country; the children are both amused and in-structed by them. This is our object in Belgium, power of cocreion by mortals. "Cramming" and although it may take us a long time to succeed, against the will of the child, or beyond its mental grasp is non-existent and impossible. You may I will transmit to you all the news concerning drown a horse but you can't make him drink. A the discoveries we will make, as you will perhaps boy may be tortured to death by severity, but you cannot compel him to learn if he is absolutely determined not to learn, or if he has not the power to learn though he be willing.

Next, the teacher of these interesting children If they come in for their share of responsibility. belong to the Lotus-caters, who dwelt within a

"In which it seemed always afternoon, All around the coast the languid air did swoon, but evermore. Most weary seemed the sea, weary the oar,

lose directly addressed. hurdy gurdies forever playing the same dismal old Since that time, I have heard that these two intunes without variation, soulless machines, and dissatisfaction, and grumbling, because they at their trained teaching power, and have followed tribute the ignominious failure of Willie and the best psychological methods of instruction, and Minnie solely to the carclessness and incompetency still these two poor infants have failed, where shall of their teachers and not in the least to anything, we place the responsibility? Either these children are naturally and honestly stupid, or their Now I maintain in opposition to these good parents are responsible. Just let us accompany people that they are mistaken in several respects. them home, cross-examine their parents, and ferret in the first place those children are not so super- out this mystery. It will be necessary to press naturally clever as their fond parents imagine, and some sharp questions, and insist on clear cut and they require to study in the hard hum-drum fashion just like ordinary boys and girls, instead of have these children been absent? How many waiting for those "happy hours that whisper milessons have they lost by being late? How many spirition" when of course your telested side of superings have they sent that with your party spirition. spiration," when, of course, your talented girl, or evenings have they spent "out" with your per-boy of genius comes into the full possession of know- mission and taking your excuse to school next miraculous than magic. Let it be taken for many times this year have you inquired what their granted that Willie and Minnie are just as well en-work was for that particular day? Now, perhaps dowed as the average boy and girl and not in the you are a little "shaky" on English grammar even, least any better endowed with natural gifts and and not very well posted on the properities of numbers, but how many times have you sat down be-In the second place these children do not know tween those two and with real sympathy and nearly so much as they and their affectionate kindness helped them to master the outward form

ling-book, or to get an intelligent conception of | Dr. Mark Akenside, the son of a butcher, was the contents of that "horrid" geography eh? horn at Newcastle-on-Tyne. His father wishing

life spend ten minutes in helping these two little Doctor of Medicine. heroes to grasp the things that lie behind the nere words in their lessons? This is not a commodity sold by weight and measure, my dear friends; you marked Dr. Johnson, "a performance," remarked by and sell education. Fifteen minutes or less each day properly spent in showing your children practically that you consider their education a matter of available and the same was fine to be a properly spent in showing your children practically that you consider their education a matter of available and the same as the same as a second control of this poem upon which Akenside's fame as children practically that you consider their con-cation a matter of exceedingly great importance an author rests—the main fault may be said to would do more towards exciting in them a laud-consist in many of its passages being too high flown able desire to be well educated than all your in scutiment and too rhapsodical in diction. This blistering reproaches, or hysterial jeremiads.

Have you ever taught your children the exact meaning of prompt, graceful obed; nee; or has it been too much trouble to be undertaken? How many times have you privately in confidental conversation with your children endeavored to make them comprehend the necessity of struggling for a Albert THE Good. Born, 1819; died, 1861. liberal education at all? Do you think they will Selection :strive for what they are not taught to value highly? Have you convinced them of the immense importance of making their mark during these golden unreturning schooldays? Take the advice of Miles Standish—"If you want a thing well done you must do it yourself ; you must not leave it to others.

Who are the associates and companions of these Do they spend their leisure hours with those vulgar little arabs who attend no school, and are preparing for scenes in the grog shop, the gambling hell, and the penitentiary? How do they spend it? Do you know? Are there any Dime Novels intercalated between their school books? How many story books did they ransack much interest did you take in the late election of osophy. tracts, and commissions, and other delicate "casual advantages "? teachers.

Biographical Sketches.

BY C. H. ASHDOWN, SANDWICH, ONT.

An outline of the life and writings of those Authors from and those who shall come after, as that-and Fifth Readers of our Public Schools.

AKENSIDE, MARK, M. D. Born, 1721; died, 1770. Selection:

Extract from his principal poem, "The Pleasures of Imagination," p. 427, Fifth Reader.

How many times?

How often have you had patience enough to hear poor Will plod through that piece of reading for next day's lesson? Did you ever in all your went to Leyden, and in 1744 took his degree of

istoring reproaches, or hysterial jeremiads. poem was followed by a collection of odes, and How many times have you in the presence of during his life he published a number of medical these pupils weakened the influence and authority essays and lectures. In the proceeding of his of their teacher by hostile criticism and unkind re-profession he first settled in Northampton, but marks? How many times have you fostered that after a time removed to London, where, practising passionate, petulant, fault finding disposition, for years, at last his ability as a medical man was which is occasionally to be expected from those recognised by his being appointed physician to St. undergoing the moulding discipline of school life. Thomas Hospital, and ultimately to the homorable position of physician to Queen Charlotte, wife of George III., which place he held to the time of How his death.

From a speech upon "Science," delivered at Birmingham, in 1855, p. 347, Fifth Reader.

Prince Albert was descended from the Ernestine, or elder branch of the great Saxon family, and was the second son of Ernest I. Duke of Saxe-Coburg-and-Gotha, and Louiso of Saxe-Gotha-Altenburg. He was born on the 26th of August, 1819, at the Rosenau, a charming summer residence belonging to the Duke, and situated about four miles from Coburg. In 1837 he, with his brother Ernest, were entered as students at the University of Bonn, where he remained until the end of 1838. During his academical course, his tutor, M. Florschutz, writes: "He maintains the orought home from Sanday School? What motives do you use? Did you practise a reign of which he applied himself to his work, and by yielding indifference? How many hours a week did that all important music lesson occupy? How much interest did you take in the late election of combustions. Trustees? Did you vote at all, and for a man who will pursue the sound policy of judicious extravagance and enlightened views on education? Or Oneon Victoria despected, and he had already will pursue the sound policy of judicious extravagance and enlightened views on education? Or Oneon Victoria despected to his cousin did you wate for come of the control of the c gance and enlightened views on education? Or Queen Victoria, daughter of his father's youngest did you vote for some Judas who will carry the bag for the sake of plunder, and hetray the interests of our children for the sake of jobs and contracts, and commissions, and other delicate "casual am was to identify himself with the British people, I respectfully request candid to the national diveliest interestin whatever tended advantages". I respectfully request candid to the nation's welfare, and the amelioration of straightforward answers, and pause for your replies before I endorse any censure whatever on the from his position as the Consort of the Ruler of a tenchers. great Empiro-his integrity-his kindness of disposition—his love of learning—his respect for the social relations of husband and father—his veneration, as a Christian man, for things sacred-preeminently entitled him to be remembered by us.

> Sweet in ture gilded by the gracious gleam Of letters dear to Science, dear to Art, A Prince indeed,

> Beyond all titles, and a household name, Hereafter, thro' all times, Albert the Good."

Mediæval History.

QUESTIONS AND ANSWERS, BY W. R. BIGO, ESQ.

When did the Saxon Heptarchy become blended into one kingdom? By what name was it subsequently known? Give the names and dates of its first and of its greatest king under the Saxon period.

(A.) In 827, under Egbert, King of Wessex, a contemporary of Charlemagne; it was subsequently known by the name of England, i. c., the land of the Angles. The greatest of the Saxon monarchs was Alfred, 871, justly honored with the surname of Great.

(Q.) 21. states of the middle ages.

Venice and Genoa.

(Q.) 22. Sketch the chief features of the Fenda! System.

(A.) About the eighth century, order began to appear in the formation of a number of isolated confederacies, the commencement of fendality, or into two classess, lords and dependents.

Charles Martel, son of Pepin, conferred benefices, the holders of which were bound to fidelity and military service. They were called vassals, but had only temporary possession of their fiefs (fides fc) from their suzerain or lord paramount. Charles the Bald made these benefices hereditary, 877, when the royal authority became prostrated, the count usurped their governments as sovereign-ties, their wives taking the appellation of countess.

Under the extension of the Feudal System the

counties and baronies.

possesses in his own right, without owing any

rent or service to his superior.

Each vassal was the liegeman of his superior, the great vassals being dependent on the Crown, and the small vassals subordinate to the great for the fiefs, which they held by homage. Their duties cross. This was a complete failure, the army bewere military service, the defence of his lord from the machinations of his enemies, and from attending to the machinations of his enemies, and from attending to the first order of the machinations of his enemies, and from attending to the first order of the first order ance in courts of justice, to pay his lords ransom, if he were captured, and to be detained as hostage.

Feudalism was gradually abolished.

1st. By the establishment of Corporations, which ameliorated the condition of the Commons.

2nd. By the destruction of the judicial powers of the seigneurs.

3rd. By depriving the Barons of the power of coining money

Traces of the Feudal System existed till the French Revolution of 1789.

(Q.) 23. Give the date of the Norman invasion

at a round table, to which none of the inferior degree were admitted. Their feasts generally ended in drunken revelry, and even the clergy were not free from excess. The farms were small, but divided into meadow, arable pasture and woodland. The fields were usually enclosed: gardone and orchards were caltivated in favorable spots, while roads and paths united the towns and Wheaten bread was not in general use; villages. the staple article of food was swine's flesh; beef and mutton were dainties, but sea and river fish were largely consumed. The clothing was chiefly were largely consumed. S71, justly honored with the surname linen and woollen; the fleece was spin in winter by the females of every family, whatever might be Name the two greatest commercial their rank, the term spinster still reminding us of this custom; they also excelled in embroidery and ncedlework.

If the Normans did not introduce the feudal system into England, they at least brought it to Commissioners made inventories of perfection. every kind of property, and a universal spoliation of the Saxons rewarded the Norman adventurers. that system of go ernment which divided society. The name of Saxon became a term of reproach, into two classess, lords and dependents. was elevated to any ecclesiastical or civil dignity.

(Q.) 25. Give a brief account of the Crusades, the dates, and state by whom the Latin

Kin, dom was overthrown, and when.

(A... There were eight Crusades or Wars of the

Peter the Hermit, a native of Amiens, with the sanction of Pope Urban II., travelled through Italy and France calling on all true believers to fight for the rescue of the Holy Sepulchre from the lands were divided into three classes, viz.: Infidels. He succeeded in setting fire "to that inlst. The noble lands. i. e., the fiefs, which were flammable mass of enthusiasm which pervaded divisible into simple fiefs, and the fiefs of dignity Europe." The first Crusade dates from the Countries of the Crusade dates from the Crusade dates from the Crusade dates from the Crusade dates from the Crusade dates or the title lands, such as the duchies, carldoms, cil of Clermont, in 1095, though it did not set out counties and baronies.

till the following year. It was headed by Godfrey counties and baronies.

2nd. The Rotures, or lands enfranchised from of Bouillon, and in 1099 Jerusalem was taken, and the fiefs possessed by Roturiers, hable to feudality became known as the Latin Kingdom, the crown and subject to their seigneurs.

3rd. The Allodial lands, which every man the total defeat of the Sultan of Egypt, on the field of Ascalon, completely established the Kingdom till 1187, when it was overthrown by Saladin

the Great, Caliph of F, ypt.

The 2nd Crusade was in 1147, when Conrad III.
of Germany and Louis VII. of France took the

cover Jerusalem, which had been re-captured by Saladin. It was led by Frederick Barbarossa, of Germany, Philip Augustus, of France, and Richard I., of England. Acre was taken by Richard, and he advanced within twenty miles of Jerusalem, but was obliged to conclude a truce with Saladin and return to Europe.

The 4th Crusade, 1195, undertaken by Henry VI., of Germany, was marked by the capture of Beirout, and the ignominious flight of the Cru-

saders from the siege of Thoron.

The 5th Crusade, 1202, was directed not against (Q.) 23. Give the date of the Norman invasion of England, and the name of the battle which decided the fate of the Saxons, with the names of the opposing chiefs.

(A.) Battle of Hastings, 1066. William, Duke of Normandy, a descendant of Rollo's, and Harold II., the last Saxon king.

(Q.) 24. Describe the social condition of England under the Normans.

(A.) The manners of the ingle-Saxons were rude and semi-barbarous. The higher classes sat

however, were rather works of peace than of war, with sculptures in bas-relief, those of the great usalem and Bethany, 1229, in exchange for his all summed annually 120,000 lbs. of oil. of Damascus.

The seventh Crusade was undertaken by Louis 1X. of France, to recover the Holy City, which had again fallen into the hands of the Mohammedans. He invaded Egypt, captured Damietta, was defeated at Mansurah, and obliged to purchase his retreat by a ransom of 400,000 livres and the restoration of Damietta.

dertaken by Louis IX., who was cut off by pesti-lence, and Prince Edward of England, after Ed-

(Q.) 26. Explain the term "Investure."

(A.) Gregory VII., Hildebrand, desired to free the Church from the temporal authority of laymen; that is, to deprive all princes of the power of investing bishops with the ring and crosier, the symbols by which the Pope and himself conferred the spiritual authority. Ata Council held in the Latheran Palace, it was de lared that no laics should confer ecclesiastical benefices, or clerks receive them from a layman, under pain of excommunication. was finally settled at the Concordant of Worms, 1122, when Henry V. of Germany renounced the right which he had hitherto claimed, but retained his authority over the temporalities of the several dioceses.

(Q.) 27. By whom was the Society of the Assassing founded? and by what name was he and hi; successors known?

(A.) By Hassan Sebek, a Mohammedan enthusiast, about the year 1090, among the hills the China Sea to the Euxine, was consouth of the Caspian Sea. Their motto was, "To Genghis Khan, at the head of the Mong the faithful nothing is forbidden." Hassan and 1206. Bagdad was taken 1258, by this successors were known by the name of "The under Hulaku. The conquest of China Old Man of the Mountain." The daggers of the pleted by Kublai Khan, in 1270. Othma assassins were felt in the East and the West; and the Turkish or Ottoman Empire 1326. Surthern parished Courad Maranis of Montferrat. Empire in Hindustan was established by them perished Conrad. Marquis of Montferrat, Empire in Hindostan was established by Tamer-in the streets of Tyre, 1192. Prince Edward of lane, in 1398, and consolidated by Baber, in 1525. England nearly lost his life also, but throwing him. (O.) 30. Give brief particular, of the founder England nearly lost his life also, but throwing himself on the assassin, he killed him with his own of the House of Hapsburgh, and mention some weapon. The sect lasted 172 years, and was finally destroyed by the Mongols. The Druses are said Give the dates. to have sprung from the Assarsins.

Abdalrahman III., 912, established the first medical school in Europe, and under his wise rule agriculture, manufactures and commerce il arished. The glorious reign of this Caliph was closely followed by the decay of the Mohammedan power. In the ear 960 the Christian, Fordinand Gonzales, founded the Kingdom of Castile, which was united to Leon in 1037, under the sovereignty of Feroration of Paintees.

The eighth and last Crusade, 1270, was also not dinand i Navarre. The Moors at this time still crtaken by Louis IX., who was cut off by pestipossessed Andalusia, Granada, Murcia, part of nee, and Prince Edward of England, after Ed-New Castile, and all the sea-coast from Barcelona. ward I., led his Crusaders to the Holy Land, but to the mouth of the Tagus. Rodrigo Diaz de Viachieved nothing of consequence. He was the last var, knewn as the Cid, conquered Valencia and among Christian princes who dreamt of recovering governed it with the authority of an independent the Holy Land.

Alphonso VI., of Castile, and Alphonso I., of Arragon, succeeded in all their undertakings against the Moors, and Arragon, New Castile and Estremadura were possessed by the Christians.

> Cordova fell in 1236, and in 1250 the Moorish dominions had sunk to the single province of Granada. On the accession of Ferdinand and Isabella the long meditated plan of expelling the Moors from Spain was put in execution. Ten years were spent in sanguinary contests before they were enabled to besiege Granada, which they invested with an army of 50,000 men, and after a blockade of nine months, the inhabitants were compelled to surrender, 1492. The Saracens were not, however, finally expelled from Spain till the reign of Philip 111., 1610.

> (O.) 29. By whom was the Caliphate over thrown? Mention some of the celebrated Chiefs, and the empires founded by them, with dates.

the China Sea to the Euvine, was conquered by Genghis Khan, at the head of the Mongol Tartars, 1206. Bagdad was taken 1258, by the Mongols under Hulaku. The conquest of China was completed by Kublai Khan, in 1279. Othman founded The Mogul

(A.) From 1250 to 1272 Germany was in effect (Q.) 28. Give an account of the Moorish Domin | without any ruler, for though there were several, ation in Spain from its establishment to its final none exercised any real authority. In the midst of (A.) Tarik, the lieutenant of Emir Musa, rulers, the power and influence of the great comcrossed the straits of Hercules with an army, and, mercial cities were slowly increasing, and from
on the Field of Neres, defeated Roderick, "the their alliances for mutual defence arose three conlast of the Goths." Musa secured the conquest, federations, viz., The Hanseatic League, 1241;
and the Moslems established themselves in Cordova, and from that centre Spain, which had re-sisted the Roman arms two hundred years, was re-duced by the Saracens in fifteen months. It ob-tained the name of the Moorish Kingdom, because the Saracens embarked for the Feninsula from fell upon Rodolph of Hapsburg in Switzerland, Mauritania (Morocco). Abdalrahman extended the Moslem power in and he devoted his attention to the internal affairs. Spain and consolidated the throne. The Great of Germany. Such was the rise of the House of Mosque at Cordova was begun by him. Its length Austria. It was about this time, 1275, that Marco was 600 feet, and its width 250 feet; 100 columns of Polo, a great Venetian traveller, crossed Asia, of marble or of jasper formed the interior enclosisting Kublai Khan in Chinese Tartary, and being of the cupola; by means of 993 others it was about this time, 1275, that Marco visiting Kublai Khan in Chinese Tartary, and having passed through China to the Pacific, sailed divided into 19 naves, all closed by gates of bronze

Literary Notices.

NATURAL PHILOSOPHY. By T. Kirkland, M.A. Adam Miller & Co., 1877.—Some time ago several Teachers' Associations united in requesting Mr. Kirkland, teacher of Natural Philosophy and Natural Science in the Toronto Normal School, to publish a book on Mechanics, or at least to allow his notes and questions to be printed. While we his notes and questions to be printed. While we have precising persons to approve of the plan of requesting persons tion by the pupils. And 3rd—The correction of to write lext-books, or of having them made to order, we know of good reason why the associations alluded to took the action stated. Attendance to the same mistakes time after time, unchecked and uncorrected must become continuous accounts. ing these conventions of teachers were men who had sat under Mr. Kirkland's teaching, as by apt illustration, and easy demonstration, the lecturer dissolved the difficulties which his experience taught him are encountered by students in mastering this important branch of applied mathematics. We are pleased to inform our readers that Mr. Kirkland has complied so far with requests made, both privately and publicly, as to prepare a treatise on Statics, which completely meets the highest expectations. our colleges, who has examined the work, pro-nounces it "the most valuable addition yet made madian teacher to our school-book litera- prehensive rules for punctuation, capitals, clear-Turning from the history of the work to ness, &c., &c. Bristol board; price, 20c. by a Canadian teacher to our school book litera-ture." Turning from the history of the work to the contents we note that besides all the propositions found in Hamblin Smith's Statics, it contains many not usually found in elementary works. Propositions in moments and centre of gravity are much simplified. To each section is added an Examination Paper, which will thoroughly test whether the particular idea of the section has been whether the particular idea of the section has been particular idea of the section has been trees. By W. C. Moncrief. Toronto: Degree fully grasped. A characteristic feature is the TERS. By W. C. Moncrief. Toronto: Degree fully grasped. A characteristic feature is the TERS. By W. C. Moncrief. Toronto: Degree fully grasped. A characteristic feature is the TERS. By W. C. Moncrief. Toronto: Degree fully grasped. problems.

Examples :-

"Why cannot a round tub be steered at as great an angle to the direction of the wind as a long boat?" P. 34.

"Why cannot a pin practically be made to stand upon its point?" P. 77. &c. &c. .
The sections of each chapter are arranged according to difficulty, hence students reading for the first time can omit the more difficult sections. ing such a book as Hamblin Smith's Statics the student finds a knowledge of trigonometry indispensable. Mr. Kirkland's Statics, although containing more than Smith's, is entirely comprehensible by the student who possesses a knowledge of the First Book of Euclid and Simple Equations. The questions already given on Statics at first and second-class and to intermediate examinations are appended. Answers are given to all questions with hints for the solution of the more difficult.

The press work is very creditable. The relative importance of the different definitions, principles and propositions are shown by the type; the most important are printed in black letter, others in Rolic. It has not yet passed the binders' hands, but may be expected on the booksellers' shelves, but may be expected on the booksellers' shelves the propositions are shown by the type; the most important are printed in black letter, others in Rolic. It has not yet passed the binders' hands, but may be expected on the booksellers' shelves ever before fell to the lot of mortal man. The story is made additionally attractive by 150 humor-cate of the first and second-class will scence a convergence.

Miller & Co., Toronto.—Adam Miller & Co., Edu- of the story is in the north of England, near Solcational publishers, have issued a set of compositive property, and the writer shows considerable tion exercise books in three numbers, prepared by ability and fine discriptive powers in its narration.

Mr. James Hughes, I. P. S., Toronto, uniform with the spelling blanks which were published by the same firm last year. the same firm last year. Composition is a most important branch of public school education, but we regret to say, very generally neglected. In a few schools it is not taught at all; in many it is badly taught. A complete composition lesson consists of at least three important parts : 1st-The preliminary instruction given by the teacher. 2nd and uncorrected, must become conf ned in par-ticular errors. Some teachers are satisfied with checking mistakes, and pointing them out to the This is not enough; the walls only of the pupils. house have been built; correction is required for Teachers whose pupils use the Exercise Books under notice, in the manner they are unmistakably intended, shall secure correction of mistakes by the pupils.

Exercise Books Nos. 1 and 2 differ only in the A teacher of mathematics in one of latter having a larger check-list of errors. Price, who has examined the work, protion and explanation, including concise and com-

> They deserve a ready introduction into Canadian This we expect more confidently, knowschools. ing that Patterson's (Chicago) Composition Blank Books, which are similar, met with an unusually

large reception across the lines last year.

CONVERSATIONS ON IMPORTANT PRACTICAL MAT-IRS. By W. G. Moncrief. Toronto: Belford These conversations are addressed to parents and teachers, and discuss in an interesting and profit-able manner topics of highest interest to those upon whom devolve the teaching and training of youth, the developing of character and ingrafting of cor-rect principles. The subject matter first appeared in the London Advertiser, and was then so well received that the author was requested to publish them in permanent form.

Belford's Monthly for April is equally as good as the former numbers of this popular Canadian monthly. "Canada a hundred years ago" is an interesting article, as also are "Forest Rangers and Voyageurs," "Artificial Fish-breeding in Ca-nada," "Evenings in the Library," "A London Modern Green-room," and "Cruise of H. M. S. Challenger," illustrated. The serials and other Departments are well sustained.

"The Adventures of Mr. Verdant Green," by

of the first and second-class win secure a correct of the first and second-class win secure a correct of the first edition. We can heartily recommend it, and hope soon to announce that it has been serial of considerable interest that has just been published in the London Herald, Mr. P. F. Dixon, Pallemote being the writer. The second case of the first and second-class win secure a correct that has just been published in the London Herald, Mr. P. F. Dixon, Pallemote being the writer.

Educational Intelligence.

Grouge WRIGLEY, EDITOR AND CONFILER, LONDON.

Home for this Department are respectfully rolicited. Send on post-eard or as "printers" copy," which can be enclosed in an encelope slamped at the rate of one cent per half or.

- -Cultivated tumber-A School Board.
- –Prof, Goldwin Smith will return to Canada in July next.
- -The highest schools of medicine in Russia now receive females.
- J. M. Buchan, M.A., inspected Goderich High School last month.
- St. Thomas is preparing to creet a High School building to cost \$10,000.
- -Listowell is preparing to build a school house which will cost \$11,000.
- -George Eliot has received for her published writings a total of \$162,000.
- -The Ohio Compulsory Education Bill has been passed by the State Legislature.
- -The average attendance in February of the Petroha Public Schools was 412; total on register,
- The Quebec Teachers' Association will hold its next annual convention in Sherbrook in Octo-
- -The Elgin Teachers' Association meets in St. Thomas, on Friday and Saturday, April 27th and
- Wingham has a school population of 502, an increase of 102 over last year. Total population, 2,022.
- -One half the students of the Kansas State University are ladies. Their average age is 18 years.
- -The School of Agriculture at Guelph is to be enlarged so as to accommodate one hundred stadents.
- school).
- -Mr. J. S. Carson, I. P. S., Strathroy, has been ill for several weeks and unable to attend to his public duties.
- -101 female students in the University of Michigan. In medicine, 37; law, 2; homopathy, 2; literature, 60.
- -Aylmer Mechanics' Institute Directors are making arrangements to add \$300 worth of new local Examination with honors was a lad named books to the library.
- The third term of the Whitby Ladies' College opened with seventy-two boarders, the largest number of any session.
- -At the last meeting of the Windsor Board of Education, Rev John Kay was appointed assistant master for the High School.
- The contract for the erection of a new High School building in Cornwall has been awarded. The building will cost about \$7,500.
- -Some vandals have smashed a number of the windows of the school recently vacated by the Christian Brothers in St. John, N.B.
- ang eighteen teachers in all on the staff.

- -At the 8th annual commencement of the Women's Medical College of New York Infirmary tho graduating class consisted of 12 ladies.
- -Mr. D. A. Maxwell, Mathematical Master in the Strathroy High School, is quite ill, and will be unable to resume work for a few weeks.
- -A young lad, whose teacher is rather free with the rod, remarked the other day that "they had too many hollerdays at their school.
- -The Brantford Collegiate Institute has seven teachers who receive salaries as follows :-\$1,650; \$1,000; \$1,000; \$1,000; \$600; \$450; \$300.
- -The third story of the Ryerson School, Toronto, is to be fitted up to make room for the children unable at present to obtain admission.
- —The annual boat race on the Thames between the crews of the two great English Universities of Oxford and Cambridge has this year resulted in a dead-heat.
- -An exchange mentions some "new college building, capable of accommodating two thousand students of the most improved style of architecture." Are they ladies?
- -- The following new school districts have been formed in Manitoba, viz :- Meadow Lea, Greenwood; Rosseau, and Belle Plain. The election of trustees took place on March 31st.
- -"Para, ought the teacher to flog a fellow for what he didn't do?" "Certainly not; my boy." "Well then, I want to tell you that he flogged me to-day because I did not do my sum."
- -Miss Mathews, a young lady in the Freshman class at Colhy University, Maine, has just received the prize for the best college preparation. The prize will pay her term bills through the course.
- -"It isn't the 'unting as 'urts the 'osses' 'oofs," said a cockney, "hit's the 'ammering, 'ammering on the 'ard 'ighway." The same man went West, and at the third attempt to say Ho-i-ho broke his jaw.
- -Another addition of lifty dollars' worth of books has just been made to the Acton Public like a schoolmaster? Because he keeps cool (keeps | Library, making the present number of volumes about 1,300, many of which are very valuable
 - -The proceeds of a literary entertainment held in the school house in Tranquility, Brant Co., amounted to nearly \$25 which will be expended in the purchase of additional books for the library in connection with the school.
 - -Among those who passed the recent Cambridge Farrow, who was absolutely deaf and dumb. He is under 16 years of age, and has obtained a certificate for classics and methematics.
 - -Female music teacher to admiring young gentleman pupil:—"Try again, Mr. C—," Pu "Do, re, mi--" Teacher—"That won't do. do not hold on to mi long enough." Pupil (Pupil— do. You Pupil (wistfully)—"I wish I had a chance to."
- -A few days ago Mr. J. Carson, Principal of the London Central School, was presented with a number of volumes of standard works, and an address from his pupils who had just passed into the High School. The address contained expressions Christian Brothers in St. John, N.B.

 —Four second-class teachers were engaged at a leaving Mr. Carson's class, and was a high tribute recent necting of the Stratford School Board, makto the esteem in which that gentleman is held by those under his tution.

-In 1851 the grand total paid for educational purposes in Ontario was first appreximately ascertained as \$599,980. In 1861 this had risen to \$1,576,107; in 1871 to \$2,297,694; and in 1875 to \$3,823,982. Such facts speak for themselves.

-The proposed amalgamation of the Dundas High School and Wesleyan Institute has been abandoned, the Institute Board not being willing to guarantee the support required by the High School Trustees who proposed to furnish the teach-

-Owing to the change in the time of the summer holidays the meetings of the Provincial and Eastern Teachers' Associations will fortunately not conflict. The latter will meet at Brockville on the 8th of August, the former at Toronto on Tuesday, the 14th of the same month.

been separated. Hon. Mr. Crooks has retained the office of Minister of Education, and Hon. Mr. Wood has taken the Treasurership, Mr. Hardy (Brant) becoming Provincial Secretary.

We learn from Mr. McMurchy, Secretary, that there are 400 or 500 copies of the Minutes of that there are 400 or 500 copies of the Minutes of swered by a bright little eight-year-old boy: "A spectors or Sceretaries of the different local asso-country governed by a king." "Who would rule spectors or Sceretaries of the different local asso-country governed by a king." "Who would rule stations should send for a many copies as they of the king should die!" "The queen." "And if ciations should send for as many copies as they think will be disposed of at their next meeting.

-" Did I not give you a flogging the other day?" said a schoolmaster to a trembling boy. "Yes, poses that a college for women shall be established scriptures say on the subject?" "I don't know, sir," said the boy, "except it is in that passage sity of Cambridge, and which shall give women which says, 'It is more blessed to give than to receive.'"

-The Literary and Historical Society of Quebec oses to set apart a special department of its has taken a step in the right direction. library for Canadian works of all kinds. will form an admirable record of our literary progress, and in time will be extremely valuable for reference.

-A school exhibition was given in Cookshire, Quebec, March 15th, the entertainment consisting of instrumental music, songs, tableaux, dramas, dialogues and essays. A dance completed this rather extensive programme, and if the quality was as good as the quantity we presume everyone got eil to sub-divide the Section, so that two schoolhis money's worth.

-At the examination of a certain school, a reverend gentleman was asking the class the mean- as the law provides for the erection of an additional ing of words. They answered very well till he school-house on the application of the Trustees to gave "backbiter." This seemed a puzzler. It the County Inspector. went down the class till it came to a simple little urchin, who looked sheepishly knowing, and said, "It may be a fica.

The National Teachers' Monthly says: - Ontario not only sets a good example to the other Canadian Provinces, but to us also in maintaining the efficiency of her public schools. No backward steps are taken, and the Government even augments the annual appropriations in the estimates for the current year.

Six school-ma'ams of Central New York have recently started for Buenos Ayres, South America. They each get \$500 in gold for the expenses of their passage, and a salary of \$2,400 in gold for five years. submit to tyranny, and rebelled, all but four Then they are to get a six months' leave of absence marching about singing songs of defiance, love, and \$500 in gold for the expenses of their trip to victory, war, peace and liberty. Hurrah for this country and return.

-A little feur-year-old boy, who had been taught his letters at home and felt his importance, on going to school, was called up by the teacher, who asked, "Can you read my boy?" The little fellow stood amazed for a moment at the impertinence of the question, and then exclaimed: "Haint you got check !"

Ida Story, a little girl, six years old, in Goderich, has been made a cripple for life by jumping on and falling off a sleigh on her way home from school. The sleigh passed over her, breaking her leg near the thigh. Teachers have control over the actions of children on their way to and from school, but seldom exercise it as they ought.

--One hundred and seventy volumes were added to the State University at Ann Arbor during Feb-The combined offices of Minister of Education and Treasurer of the Province of Ontario have of Roads." The United States Centennial Combined of the Mr. Cronke have retained of Roads." The United States Centennial Commission has presented the library with sixteen volumes, all of them pertaining to the Exposition.

> -During a recent examination of a class of youngsters in a County school, the teacher asked. "What is a monarchy?" and was immediately anthe queen should die, who then would be ruler?" "The jack."

> -A correspondent of the London Spectator prosity of Cambridge, and which shall give women practically all the advantages in literary and general culture which are offered to men in the University itself.

> The next annual meeting of the National Educational Association and its associated departments will be held at Louisville, Ky., on Tuesday, Aug. 14th, and the two following days. The programme of Exercises will be announced in a future issue together with the hotel and railway arrangements. M. A. Newel, Esq., Baltimore, Md., is President of the Association.

> A deputation from a number of the ratepayers of S. S. No. 5, Goderich Township asked the Counhouses might be built at a moderate cost instead of one costly one. The Council could do nothing,

> -The state of education has been attracting thoughtful attention in Lindsay, and last month a meeting of the teachers and trustees of that town was held to discuss matters of prospective improvement in the schools. Frequent meetings of this kind for an interchange of views would have a beneficial effect in keeping up the interest in matters pertaining to the schools.

> -On Washington's birthday the students of Niles, Michigan, High School got a suff of the glorious air of freedom, and full of the spirit of liberty, petitioned the Professor for a half holiday. Their prayer being ignored, they resolved not to submit to tyranny, and rebelled, all but four Hurralı for Washington !

an example of carnestness. dew-drops glistening on the leaves of the rose in ployers who evade or violate the law are punishearly morning, as he delivered himself of the follable with a fine of \$5 to \$50.

lowing happy thought: "When you see a boy —The Educational Department is erecting in

-The death is announced of Mr. Charles Cowden Clarke, the English author, in his nintieth year. Mr. Clarke's best known works are Shakesalso familiar through the magnificent and standard | Shakesperian Concordance published by his wife.

-The New York Sun has heard of a young Englishman who is handsome, a perfect linguist, a graduate of Baliol College, Oxford, an accomplished gentleman, and, in spite of it all, serves well in the capacity of butler in a New York family. Did any one ever know of a more beautiful instance of genius rising superior to circumstances? Few young men similarly endowed could retain in adversity the proud spirit of a butler.

-Stratford Public Schools are prospering. The February report shows an average attendance of 903; being 65 higher than in January, and 17 higher than ever attained before. In consequence of a want of proper accommodation, pupils have to attend schools outside of the wards in which they reside. In the High School the number on roll for

nison, of Toronto, has become a competitor, and, from the reputation he bears, we should not be at all surprised to hear of his success.

—A short time ago a son of William Tyler, London, played truant, and did not return home in the evening. Diligent search was made for him all night, but he could not be found. In the morning his body was found beside the railway track,

strengthen the hands of all teachers in their efforts 776. to secure a fair and thorough classification of their schools; and (2nd) make the system of classification throughout the county as uniform as possible, Eliot's "Daniel Deronda," is a lady now living to secure a fair and thorough classification of their our schools.

The Compulsory Education Bill is before the Illinois Legislature. It provides for at least 12 lace, as the book states. During her infatuation weeks' schooling annually to every child of school she was narrowly watched by George Eliot, and age, and prohibits the employment of children in factories, etc., unless they shall have had the requisite period of schooling the year before. The dolyn" that, as the book stated, he offered to

-A school-boy was asked by his teacher to give school boards are invested with authority to exe-example of earnestness. He looked bothered cute the act and to bring its penalties to bear on cute the act and to bring its penalties to bear on for a moment, but his face brightened like the those who violate it. Parents, guardians, or em-

engaged on a mince-pie till his ears droop on the England a new class of schools, to be known as outer crusts, you may know he has got it."

Certificated Efficient Schools." They will not the control of the control o be necessarily in receipt of aid from the Parliamentary grant, but must be open to inspection, and have all class books and other details in conperian Characters, Molicre Characters, Tales from formity with the Code. As after 1878 children Chaucer, Riches of Chaucer, and a series of Essays under fourteen years of age will not be allowed to on the Comic Writers of England. His name is labor unless they have a certificate of having passed a certain school standard, these schools are being organized to meet that requirement.

-A meek-looking boy was intently pegging along towards a certain school house the other morning, when he was met by a crowd of his fellow-schoolmates returning with their books under their arms. Upon perceiving their school-bound comrade a chorus of cat-calls and shricks rent the air, hats were thrown up and heels were kicked ditto.
"What's up?" inquired the lone boy, with a grin
of anticipation spread all around his face, and even
back of his ears. "No school?" howled the mob;
"teacher's sick!" And another pean of praise
ascended from their united voices as they all turned the corner on the jump. A boy is a funny creature.

Normal Schools in some of our neighboring States have lately been the subject of considerable —Some time ago prizes were offered by the Russian Government for the best and second best essays on "Cavalry as a military arm," the prizes being £600 for the best, and about half that sum for the second best essays. Foreigners being allowed to compete on condition that their essays were accompanied by Russian translation, Lt.-Col. Dennison, of Toronto. has because of the second best essays were accompanied by Russian translation, Lt.-Col. Dennison, of Toronto. discussion in the legislatures and elsewhere. sault by the opposition, has secured the Normal School grant.

—In 1842 the population of the Province of Ontario was 476,055, not so much as the school population is now. There were then 25 High population is now. There were then 25 High Schools and 1,721 Public ones. In all, there were of every kind 1,795 educational establishments, with 65,978 pupils, and salaries were paid to the about a mile from the city, the neck being broken. He had been stealing a ride and when jumping off the cars had met his death. He was not killed because he was playing truant, but if he had not played truant he would not have been killed.

Description of High Schools to 2,992, and the number of scholars had risen to 3,262. The number of scholars had risen to 179,587, and the number of scholars had risen to 179,587, and the number of High Schools was 91, and there were the number of High Schools was 91, and there were the number of High Schools was 91, and there were the number of High Schools was 91, and there were the number of High Schools was 91, and there were the number of High Schools was 91, and there were the number of High Schools had risen to 60, the Public Schools to 2,992, and the number of scholars had risen to 179,587, and the number of High Schools of High Schools was 91, and the number of High Schools had risen to 60, the Public Schools to 2,992, and the number of scholars had risen to 60, the Public Schools to 2,992, and the number of scholars had risen to 60, the Public Schools to 3,262. The number of scholars had risen to 179,587, and the number of High Schools was 91, and the number of scholars had risen to 60, the Public Schools to 2,992, and the number of scholars had risen to 60, the Public Schools to 2,992, and the number of scholars had risen to 179,587, and the number of schools was 91, and 180, an with 65,978 pupils, and salaries were pair to extent of \$186,000. By 1852 the population had more than doubled; the number of High Schools had risen to 60, the Public Schools to 2,992, and the extended extended to 3,262. The yearly Promotion Exercise Papers, which are de 3,995 Public School, while the number of pupils signed "to (1st) guide the less experienced, and was 329,033, and the amount paid in salaries \$959,-

and thus materially mitigate one of the evils flow- in London, who some years ago was possessed of ing from the too frequent change of teachers in nearly a million dollars. She went to the continearly a million dollars. She went to the continent and became "an infatuated gambler," losing nearly all her money, and parting with her neckmake good her losses if she would cease to play, but she refused. Gwendolyn is now about 25 years old, unmarried, grand-daughter of one of England's greatest poets, but lives on an income of about a thousand dollars a year, all that was saved from the wreck.

summer vacation. with insertion." proof that teachers are not sufficiently remuner-When will trustees learn ated for their services. to appreciate the labors of those whose astounding abilities command for them such handsome salaries (\$2,700 per mon h we suppose) as is now claimed by this young man who "was raised around Dundas?"

If the following is a fair specimen of the articles that appear in the local column of the Brant Union we should judge that its editor was a hoy—a bud boy—one who, on account of habitual naughtiness, was often whipped and placed upon the dunce's stool, and that in consequence of this punishment he did not love his teacher. Perhaps Schools, and that supporters of Separate Schools 'tis even so :---

'Father, who is that I see A rushin' down the street? Why does she hold her head so high, And drag her great big feet?"

"That? Why that's a schoolmarm, hoy, Who's just received her pay; She's only a maid that's filled with joy-By Hokey! get out of her way.

-At the opening of the British Colombia Legislature, a few weeks ago, his Excellency the Lieut Governor referred to educational matters as follows :

"In respect to school matters, changes have been made in accordance with the expressed wishes of this honorable Legislature at its last session. Deputy-Superintendent has been appointed the mainland, and it affords mepleasure to say that the important institution at Cache Creek, that had been allowed to fall into decay and much diminished usefulness, has since the appointment materi-A High School, to provide for free ally improved. instruction in the higher branches of education, has also been established in this city. It is doing very useful work, and has already proved to be a very valuable adjunct to our school system."

-A daughter of Mrs. Keegan, of 53 McCord lage named Minuth, in Ontario, sent her mother future students. \$25 in a registered letter, on March 5th. The .- The London letter was delivered on the 12th by the letter-carmation regarding the salaries of teachers in the rier, but, on opening it, it was minus the money, schools under the Board. The largest salary paid On sending after the carrier and informing him of to any one teacher is \$975, and this is supplethe abstraction of the notes, he said he thought at mented by the Covernment grant in a very large the time of delivery it had been tampered with on school amounting to \$478, with \$150 for the inaccount of the letter being so thin. Complaint struction of pupil teachers and \$24 for drawing was made to Inspector King, who examined the grant, making in the whole \$1,627. There are letter and envelope, and who expressed his opinion

-The State of New York owns school property to the amount of \$31,017,904. The number of pupils attending the public schools during some portion of the past year was 1,067,199. The whole number of teachers employed was 30,109, and their aggregate wages reach \$2,965,804. The —(i. J. Moloney writes from Penetanguishene to the Dundas Standard as follows:—"You might the towns, \$237. The State school tax for the insert this in your paper. I am engaged by the current fiscal year is \$2,797,725, and the income Emerald Base Ball Club of Boston at a salary of from the common school and United States deposite the residual paper. \$2,700. I was raised around Dunkes. Am teach. | Linds brings the available amount up to \$3,132,ing school here, and I always call to see you in the 725. The total expenditures of the past fiscal year If you insert, send the paper were \$11,439,038.78, the larger portion of which Now there it is again—another was furnished by local tax. Superintendent (iilmour urges that in order to seeme greater efficiency in supervision, candidates for the office of school commissioner be required to be the holders of State certificates or of diplomas from one of the highest institutions of icarning.

> -The school premises occupied by the Christian Brothers have been transferred to the St. John N.B.) Public School Board, on the understanding that in these schools none but Roman Catholic teachers will be employed. All teachers must be regularly licenced and engaged by the public School In view of the fact that in New Brunswick every ratepayer is taxed for the support of Public have, therefore, to submit to being doubly taxed, this compromise may be regarded as a genuine triumph for mederation and liberalism. The Christion Brothers consider the Bishop acted hastily in accepting terms from the Board which were obnoxious to them, ioasmuch as certain rules of their order prevent their teaching under the Free School Board. They will, therefore, return to Montreal in a few days. The Schools taught by the Sisters of Charity will come under the new arrangement also.

-- The session of the Ontario Veterinary College just closed has been the most successful in every respect that has yet been held. The institution has been so improved in size and convenience that it may almost be said to be new. The accommodation for horses is very complete and adapted with all the modern appliances of a horse hospital. students' room are also ample and correspondingly improved. The dissecting room is now, in the opinion of Professor Buckland, as good as it could be made, well lighted, and fitted with gas, water, and mechanical means for moving the bulky subjects that are displayed here. This is probably the most important improvement in the College. In the front of the building up-stairs is a spacious hall, where there is already a nucleus of a museum containing anatomical preparations, and an extenstreet, Montreal, who is a school teacher at a vil. sion of this collection will prove of value to the

-The London School Board have printed inforgrant, making in the whole \$1,627. There are four in the London school system receiving more that the money must have been in when the envelope than \$1,500 per annum, including these extras for lope was stamped at York River, as the impression work. There are eleven who receive from all had not penetrated the paper. The Inspector has sources \$1,250 and under \$1,500; thirty-five who written to the Postmaster at Kingston, in whose receive above \$750 and under \$1,000; sixty-four district York River is situated, about the robbery, who receive above \$625 and under \$750; 107 who receive over \$500 and under \$625; 111 who receive, and enable him to make rapid progress in professchools. Every teacher has to be qualified accord, farm or in shop, now have to struggle terribly hard ing to the Government standard, and the examination American cities, East and West, to keep the tion course is now very strict.

At a meeting of the Senate of the University adopted and passed by the Senate. "That stu-dents in Theology may find within the Province the means of instruction in Theology and the tenets of their respective Churches, and that the ties which after their Arts course binds them to the University be not weakened by after attendance at an institution entirely unconnected there-

-A very interesting fact brought out in the report of the Ontario Schools for 1875 is, that while so much is said about Roman Catholic Separate Schools, and their necessity for the preservation of ing a School boy" gives a report of the trial of a the morals of Roman Catholic children, the num-teacher for punishing one of her pupils, it shows ber of Roman Catholic teachers in our Public that his desire is to make his paper as sensational Schools is every year increasing. In the Province as possible. When other editors copy the article there were in 1875 6,018 certificated teachers—an thus headed, the people are reminded of the fact increase in the year of 282. Of these 726 were Roman Catholics, of whom 516 were employed in the Public schools, and only 210 in Roman Catho-Let it be noted still further lic Separate ones. that while for 1875 there was an increase on the previous year of 34 Roman Catholics holding certificates as teachers, there was a decrease of 68 teachers in the Roman Catholic Separate Schools, while in the schools themselves there was a decrease of 10. Their income from all sources was \$90,626, or little more than one-fortieth of that of the Public Schools. In 1855 Roman Catholic Separate Schools were established. During that year 4,885 pupils attended those schools, while in 1875 the number had risen to 22,673.

Among the inmates of a charitable soup house in St. Louis is a graduate of Harvard who is well connected in the East. He has been unfortunate in his efforts to support himself, and is too proud to write to his friends and let them know how wretched a failure he has made since he was graduated. He goes out every day in search of work, and gets an odd job occasionally. His habits are

\$375 and not over \$500; and 41 who receive under sional or business life. Collegians who acquire \$365. No houses, rents, or other domestic aids literary taste and culture at their university, but \$305. No houses, rents, or other domestic aids literary taste and culture at their university, but are given to any of the teachers in the Board who are above following their fathers' calling on wolf from the door of professional life.

The Senate of the University of London has of Now Brunswick the following resolution, pro-descided, by seven votes to fourteen, to grant posed by the President for consideration, was medical degrees to women who have gone through the prescribed training and can pass the examina-The decision is of importance not only to tions. the medical profession and to those ladies who wish to enter its ranks, but to the public. history of the agitation for the admission of women to medical qualifications is a curious one. dance at an institution entirely unconnected there-with, it is desirable to encourage the formation of bodies have acted for the most part in a strangely Theological Halls or Colleges, and affiliate the same with the University. Be it therefore resolved, not make up their minds on the question. Thus that until a separate building can be creeted and the authorities at Apothecaries' Hall admitted one maintained at the cost of the several religious bodies concerned, the use of a lecture room in the lady, Mrs. Garrett-Anderson, and then refused bodies concerned, the use of a lecture room in the lady, Mrs. The Edinburgh, too, where the ladies, any others. In Edinburgh, too, where the ladies, any others. University be granted in the afternoon during term time to any Church or denomination with a suitable professor or professors for giving theological instruction to the students belonging to the said Church or denomination."

any Obers. In Edinburgh, too, where the ladies, any observed the ladies, and ladies and la illogically. They were admitted to the lectures, but refused prizes when they won them; they were allowed to go through the curriculum of study, but not to compete for the degree.

When an editor under the heading of "Whackthat when one sheep jumps the rest of the flock do likewise. When the editor who wrote the article under "Whacking a School-boy" did so, he stated what was untrue when he represented that the teacher had to pay \$3.20 costs for "brutally whipping one of her scholars." The scholar was a hulking lad of seventeen years of age, and the teacher was a lady who was unable, however willing she might have been, to preform such an herculean task. Moreover, the case was never tried, the friends of the lady having, unwisely, we think, agreed to compromise the matter by paying the costs incurred rather than allow her name to be published in connection with the matter as it has been. We enter our protest, therefore, against the action of our contemporary (who is unknown to us) in whose article the lady, though untried, is pronounced guilty; and who has caused her name to be heralded throughout Canada as one who is unworthy to occupy the honorable position of a teacher.

The Government of France have taken the first steps towards establishing free and compulsory good; he is intelligent; he is careful of his pen-nies and is striving to save enough to take him to another town. The moral right of a man, who has friends that are willing to help him, to fall back upon public charity may well be questioned. The read or write, while in 1872 the average number incident however, illustrates a condition of Americ, with that lowest standard of education in the whole incident, however, illustrates a condition of Ameri: with that lowest standard of education in the whole few years. Education is not as valuable capital as. After the Franco-German war, Frenchmen learned it was twenty or fifty years ago. It was easier that much of their military inferiority was due to their for a college graduate to win immediate suction. then for a college graduate to win immediate suc-cess than it is now. He had only to go from col-lege to a village in a Western State, and the na-tural growth of the town would set him on his feet special power to make primary education gratuitous, and to defray the expenses by the imposition of rates, and also enable them to borrow from the State for educational purposes at the rate of three per cent. The great opposition to this proposal will come from the Catholics, whose influence in the matter of education has been the controlling one, being so strong that private schools have been the candidates to a specified portion of the work. closed by the clergy because merely secular, althe insisted upon carnestness on the part of teachers though the parents of the scholars did not desire as well as industry and promptness and accuracy,

meet with the East Middlesex teachers and others on Saturdays, for the purpose of giving instruction in her method of teaching singing and reading, simultaneous and individual recitation. These lessons are very profitable to the teachers, and, evidently, much appreciated, as some come long distances to attend them. Singing should be taught or allowed in every school. Its moral and physical influences cannot be easily overestimated. We know of teachers, not singers themselves, who have singing in their schools by taking advantage of the Sunday School teaching, and encourage the cution, and of advancing pupils from grade to children to sing the hymns there learned, under grade. During the day Mr. Watson and his pupils the leadership of one of the pupils. Two weeks ago at Mrs. White's class, Messrs. Reid and Anderson distributed sample copies of a collection of hymns made by the Rev. Mr. Gall. This collection is very suitable for those who have to rely on the Sunday School singing, as it contains about 200 of the most popular hymns, such as "Hold the Fort," "Sweet By and By," "Over There," "Daniel's Band," "The Gate Ajar," "Only an Armour-Bearer," &c. It gives the air, and can be placed in the hands of every child as it costs only five cents. The want of a good collection of pieces adapted particularly to Canadian schools is much

-WHAT'S IN AN EDUCATION? - As there are those who entertain grave doubts concerning the benefits of education, we believe we have only to introduce the following interesting report of an interesting conversation upon an interesting subject, to convince them that the want of education, sometimes at least, places very good people in awkward positions:—"My dearest Fanny," he said, as they stood beneath a tree in a flood of moonlight, "I have longed—oh, so longed!—for this blissful op-portunity; and even now, I hardly dare to speak the swelling thoughts that struggle up for utterance. Not in the blistering glare of the noonday sun would I whisper to thee of the sweet love that has tinged my whole being with a celestial brightness, but in this soft silvery sheen of the constant moon would I syllable forth the ecstatic song of Oh! canst thou realize how like the radiance of heaven thy beauty beams upon me? And shall not the blessed boon be always mine? Wilt thou not henceforth, for all coming time, give me the right to shield thee from the rough contact and chilling blasts of an unfeeling world? Oh! if thy smiles could be mine while life should last, they would shed—a—a—ah, my dearest, they would shed—" While he hesitated and atumbled for a word, Fanny eagerly whispered, "Never mind the wood-shed, Albert, but go right on with your pretty talk."

The Brant Teachers' Association met in Brantford on Saturday, March 10th, about fifty members and a number of pupils attending. "Entrance | teachers having charge of a Public School is \$426,

Examinations" was first taken up by J. Mills, M. A., Brantford Collegiate Institute. He deprecated the addition of the whole history of England, lately introduced by the Central Committee as one of the subjects for entrance, and considered that it would have been much better to have confined He insisted upon carnestness on the part of teachers religious teaching in the schools. Besides, only on the part of pupils. Other speakers agreed with one thousand out of the thirty-eight thousand schools in France are not strictly Catholic.

— Mrs. White, London East, still continues to principles were employed, for example, in the solution of mathematical problems, it mattered not whether the result in every case were a correct

"How to teach a class," was illustrated by A. T. Watson, Langford. He first introduced a class of small children in the tablet lessons, their earnestness, cagerness, and evident desire to do their very best, being so apparent that their efforts were highly appreciated and complimented. Classes in the second and third books did equally well, and Mr. Watson explained his manner of teaching Elo-

visited the Blind Institute.

Chairman Kelley, I. P. S., discussed the 'Feasibility of Establishing County Model Schools," and considered that with the means at our disposal at present it would be almost impossible to sustain efficiently such institutions; that in the rural parts of the county there were probably not more than three or four centres in which such school could be established; and that as only one hundred dollars was provide as extra support, there was but little chance of making such a school, if established, a permanent success.

M. Wilkinson read a good, practical essay on "Teaching." A reading, very well done, by Miss R. S. Smith; an admirable essay by Miss Clarke; and a reading, given with much taste and precision, by Miss Jennie Woodyatt, completed the programme. The annual meeting of the Associa-

tion will be held in June. -Wentworth Co. has one Separate School and 72 Public School Sections, 13 of these being Union Sections. In one school, 4 teachers are employed; in one, 3; in ten, 2; and in all the others except two that have paid monitors in the winter months, only one is employed; total number of teachers, 88. During the past five years \$64,000 have been expended in furnishing adequate accommodation. Twenty-four new school houses have been built, Twenty-four school sites conand 27 improved. tain not less than an acre, and 37 not less than half an acre. In 1875 the total receipts for school purposes was \$57,528.85; of which \$8,223.47 was Legislative and Municipal grants; \$35,445.99, from taxation on property: and \$13,855.39, from other sources. The amount paid for teachers' salaries was \$30,956.08; for building school houses and purchasing sites, \$14,592.94; for incidental expenses, \$7,939.12; making a total expenditure of \$53,492.14, and leaving a balance of \$4,036.71 in the hands of the various Boards of Trustees. average rate of taxation was 3 3/5 mills on the dollar. Of the 88 teachers employed, 49 are male, and 39 female. Of these, 72 have charge of a Public School; 1 of a R. C. Separate School; and 15 are assistants. The average salary of male.

of females \$283, of assistants \$192. There were 5 26 Second-Class Provincial, 17 First-Class County education in our Province. We subjoin the fol-Board under the old Act, 38 Third-Class County lowing report of attendance from the Globe.—Board under the new Act, and 2 Interim Cert. ii.—"The school population at the date of the reentes. The average increase of the salary of male port was 501,038, but this was thought to be below teachers since 1871 was \$60, or nearly 27 per cent.; the real number. The total number of pupils atof females, \$34, or nearly 15 per cent. The highest tending school was 474,241, an increase on the pear salary paid to a male teacher was \$525, the lowest of 10,194. The number reported as not attending \$300; to females \$400, the lowest \$200; to assist school was 10,809; but this must be far below the auts \$225, the lowest \$120. The total number of pupils registered during the year was 7,147; of these 7,028 were between the ages of 5 and 16, and average daily attendance was only 198,574. Of these 7,028 were between the ages of 5 and 16, and average daily attendance was only 198,574. Of these 7,000 are 100 average daily attendance was only 198,574. 424 of other a.cs. The number attendic, less the pupils entered as at school, 48,216 attended than 50 days was 2,126, or over 28 per cent of the less than 20 days during the year. No one could registered number; between 50 and 150 days, 3, say these got anything to be called education. 628, or nearly 49 per cent; between 150 days and Then, of those who attended 20 but under 50 days, the whole year, 1,693, or 23 per cent. nearly. The average attendance for the first half year was 3,373, or over 45 per cent; for the second half year, 2,-982, or a little over 40 per cent., giving an average of nearly 43 per cent, for the year.

modifications will be made in the subject prescribed so on, making the good they received maintely for candidates for entrance into Collegiate Instismall, but the evil they inflicted upon the schools tutes and High Schools, and the same shall come formidably large. Of the whole number of 474,into effect at the Examination to be held in June 241, only 19,904 attended more than 200 days dur-

will be strictly limited to the outlines of the subject.

II. Candidates will be examined, as heretofore, in reading from the Fourth Reader, pp. 1-256, great majority of the pupils can have time to rebut they will in addition be expected to show that ceive instruction. they understand the meaning of these reading .l essons.

They will likewise be examined more minutely on the selections enumerated in the following list, and they will be required to reproduce the substance of one or more of them in their own language:-

1. The Norwegian Colonies in Greenland.—

Scoresby.
2. The founding of the North American Col-

onies.—Pedley.
3. The Voyage of the "Golden Hind."— British Enterprise.

The Discovery of America. - Robertson.

The death of Montealm. - Hawkins.

- 6. Jacques Cartier at Hochelaga.—Hawkins.
- Cortez in Mexico.—Cassell's Paper. The Buccaneers—The Sca. 8.
- The Earthquake of Caraccas.-Humboldt. 10. The Conquest of Peru .- Annals of Romantic .
- Adventures. The Conquest of Wales .- White's Land-11. marks.
- Hermann, the Deliverer of Germany .-12. Jerrer.
- 13. The Burning of Moscow. - Segur's Narrative.
 - The Battle of Thermopylae.—Raleigh. 14.
- The Destruction of Pompeii. Magazine of 15. Art.
 - The Taking of Gibraltar. —Overland Route. 16.
- The local Boards are directed not to admit candidates that fail to obtain one of the marks | given for the parsing question on the paper in grammar.

- The annual report of the schools of Ontario teachers holding First-Class Provincial Certificates, contains very pleasing evidence of the progress of

there were 93,321; and of those who were 50 up to 100 days, there were a many as 126,650. This would show that 268, 187 pupils, or a great deal more than one-half of all in attendance during —In accordance with the suggestion of the Central Committee of Examiners, the following modifications will be made in the subject prescribed for candidates for entrance into Cellanders on making the good thou and into the subject prescribed so on, making the good thou 1875, were at school for less than a hundred days. next, viz.—

I. Candidates will be examined in the leading factory state of matters. We notice that there facts of English History. The questions set will are twenty-five different branches of instruction not demand a minute knowledge of details, but in the Public Schools. This must necessarily involve in very many cases a large amount of superficial work, and the neglect of the more ordinary but more important branches in which alone the

> The amount of money expended during the year The total receipts were \$3,365,was \$2,993,080. 454, while in 1860 they were only \$1,324,272. The highest salary paid to any teacher in a city was \$1,000; the lowest, \$400. In a county, the highest, \$\$00; the lowest, \$120. Male teachers' salaries in counties averaged \$361; female, \$236. These salaries show a small increase on those of the previous year. The number of School Sections in 1875 was 4,912, an increase of \$1. ber of schools kept open was 4,834, in 4,014 of which the exercises were opened and closed with prayer. The receipts for High Schools amounted to \$348,018, and the expenditure was \$332,013. The number of pupils was \$,342, and of schools Of the pupils at the High Schools, 100, during 1875, matriculated in some University; 454 entered mercantile life; 278 went to farming; 326 joined the learned professions; and 586 went to

other occupations.

Association Meetings.

Will Inspectors or Secretaries of Associations please inform usin good time of the date of the next meeting of their respective associations, so that we may give the same anotice under this head.

NAME.	PLACE.	DATE.
N. Wellington	.Elora, Ont	April 7.
		tApril 27 & 28.
South Essex	Learnington, On	tMay
Perth	Stratford, Ont.	May 25 & 26.
Brant	Brantford, Ont.	June
Eastern	.Brockville, Ont.	Aug. 8.
Provincial	.Toronto, Ont	Aug. 14.
National	. Louisville, Ky.	Aug. 14.
Quebec	.Sherbrooke, Qu	cOctober ——

-Swift.

English Department.

J. G. HANDS, EDITOR, 76 CARTWRIGHT ST., LONDON.

Subscribers are cordially invited to co-operate with the Editor in making this Department as interesting as possible by freely discussing the points raised by enquiring corres-pondents.

Questions are invited bearing on the subjects of Grammar,

Queries.

Parse the italicized words in the following:

This book is mine.

I sift the snow on the mountains below Till their great pines groan aghast.

(c) I live as I did, I think as I did, I love you

as I did. (d)

The bell strikes one. —Young.
The more you talk, the worse you make it. (e)

It continued for more than a week.

They were armed with various weapons, such as guns, spears, &c.

Mathematical Department.

SAMUEL R. BROWN, EDITOR, BOY 67 D, LONDON.

Teachers and others are invited to forward any problems they may think worthy of a place in these columns, pro-vided always that the solutions accompany the problems, Send Solutions before 15th inst., to receive attention, and

Send Solutions before 15th inst., to receive attention, and address the Editor as above.

When sending solutions, correspondents will please send each month's problem: separately.

The names of those who solve the several problems correctly will be published with the solutions thereof.

The solutions of all problems published in this department will be printed in the second number following that in which the wrollems awnear. the problems appear.

Problems.

No. 55.-

In an endless screw, the length of the handle is 30 inches, the wheel has 70 cogs, and the axle to which the weight is attached has a radius of 21 inches. What weight will be sustained by a power of 200 pounds?

No. 56.—Suggested by G. W. Priest, Ayr.

Reckoning commercial discount at S %, how long would a bill have to run so that the holder No. 43. would be willing to pay something to get it off his hands? Show that the error in computing commercial discount, instead of true discount, varies! nearly as the square of the time, when the time is small and the discount is small, compared with the debt.

No. 57.-



In the triangle A B C, the side A B is 60, the side A C 50, and B C 40; also A D is equal to D C. Find B D.

No. 58. - Proposed by James E. Frith, Norwich.

A merchant sells tea at a profit of 20 %, but, when he had sold 20 lbs., he discovered that his sales had caused him a loss of 1 oz. per lb. sold; the then corrected, as he supposed, the error, and sold 20 lbs., and found that he had gained 1 lb. on the second sale. On the whole transaction he Questions are incited bearing on the subjects of Grammar.

English Interature, Etymology, d.c.; but they must be of such a character as to be interesting to subscribers generally.

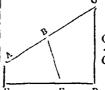
Matter for this Department must be addressed to the Editor
as above not later than the 15th of the month previous to that in which it is expected to appear.

Answers to queries, dee, will be inserted in the second number following that in which they appear.

No. 59.—Proposed by Allan F. Pringle, North Dumfries.

A merchant bought a quantity of vinegar which was invoiced at 20 cents per gallon. Find the rate at which he must sell it so that he may clear just 25 % on the net cost-allowing 5 % of the quantity is lost by leakage, and that he loses 10% of the sales by bad debts. The charges for freight and commission amounted to 5 % of the selling price.

No. 60.—Proposed by Thomas Worden, Cromarty.



ABE, CBE, AFD and C D F are right angles. A F
2, F E = 10, E D = 6, and C D = 14. Find B E.

No. 61.—Proposed by A. McIntosh, Pinkerton. (Taken from Advanced Arithmetic, page 266.)

A semicircular plot of ground, whose radius is 12 yards, has inside the circumference a path two yards; the rest of the space is a flower bed. Find the size of the bed.

Solutions.

If A and B together can do the work in 16 days, they can do 1 in 1 day, and in 4 days they do 1 or 1 of the work; 3 of the work is left undone when A is called off. B finishes this in 36 days. Now if B does 3 of the work in 36 days, he can do 1 of the work in 36 days, or 12 days; and if he can do 1 of the work in 12 days, he would do 4, or the whole of the work, in 4 times 12 days, or 48 days. A and B together do $\frac{1}{16}$ in 1 day, B by himself does $\frac{1}{13}$ in one day, then $\frac{1}{16} - \frac{1}{16}$ or $\frac{2}{15}$ or $\frac{1}{16}$ = the part of the work A can do in 1 day. If A does $\frac{1}{16}$ in 1 day, he would do $\frac{3}{14}$, or the whole of the work, in 24 times 1 day, or 24 days.

Multiply the numerator and denominator of the fraction by the numerator, and the equation

$$\frac{\left(\sqrt{c} - \sqrt{c - x}\right)^2}{x} = c \tag{1}$$

Or
$$(\overline{Vc} - \overline{Vc - x})^2 = c x$$
 (2)

Extracting the square root-

$$V_{c}^{-} - V_{c-x} = V_{cx}^{-}$$
 (3)

By transposing,
$$V_{c} - V_{cx} = V_{c-x}$$
 (4)

By squaring (4), $c - 2cV_x^2 + cx = c - x$ (5).

Whence $c = 2 c \sqrt{c} + c = c$ Dividing by V_{cc}^{+} , $eV_{cc}^{+} = 2e^{-c} + V_{cc}^{-}$ Or $(c+1) |V_{cc}| = 2 c$ Whence $V_x = \frac{2c}{c+1}$ By squaring (9), $x = \frac{4|e|^2}{(|e|+1|)^2}$

No. 44, ---

Through D draw D E parallel to A C; then in the triangle B D E we have B D 80, D E 90, and B E 40 rods. We find the area of the triangle B D E (having the three sides given) to be 1599.8046 rods. But the area of a triangle = the base λ one half the perpendicular height. Therefore the perpendicular height of the triangle B D E (having the three sides given) to be 250 \pm 12.5664 = 19.89 lbs., the pressure on each fore the perpendicular height of the triangle B D E (having the triangle B D E) = 1599.8046 \pm 4%, or 79.99023; this is also the perpendicular breadth of the parallelogram A C D E. Multiply this perpendicular breadth by the length and we have 79.99023 \times 100 = 7999.023 rods, the area of the parallelogram A C D E; then 7999.023 \times 100 = 7999.023 rods, the area of the parallelogram A C D E; then 7999.023 \times 100 = 7999.023 rods, the area of the whole \times 1599.8046 = 9598.8276 = the area of the whole \times 160.116 square inches. Then V60.116 or 7.7534 figure, A B C D,

And 9598.8276 160 receives for the field.

The angle C D B is an acute a, ylc.

No. 45.-By John Anderson, Dixie.

Let B be the point of crossing, and let B A = c, B C = a, A C = b. Then the angle B = 36°, angle A = 90° - 36° days, there will be an average day.

The L. C. M. of 18, 30, 33 and 25 is 4950.

Now let us divide the work into 4950 equal parts, then there will be an average of 198 parts done per day.

. $\sin B = \frac{b}{c} \cdot \cdot \cdot c = \frac{b}{\sin B}$ = $.\frac{440}{255}$ = 748 yds. But sin. A = $\frac{a}{5}$.: $a = \frac{1}{5}$

 $c \times \sin A = 748 \times .809 - 605 \text{ yds., then}$ 605: 748:: 20 mls. to 243 mls. nearly.

No. 46.-By G. W. Priest, Ayr.

Let 1 or unity - cost of coffee per lb., $\frac{2}{3}$ = what he wishes to gain per 1b., $\frac{2}{3} \times \frac{2}{3} = \frac{3}{4}\frac{2}{3}$, what he received for $\frac{2}{3}$ lb., $\frac{2}{3} \times \frac{2}{3} = \frac{3}{4}\frac{2}{3} - \frac{1}{3} - \frac{1}{3}$ what he received for $\frac{2}{3}$ lb. $\frac{2}{3} \times \frac{2}{3} = \frac{2}{3}\frac{2}{3} - \frac{1}{3} - \frac{1}{3}$ what he received per 1b. $\frac{2}{3} \times \frac{2}{3} = \frac{2}{3}$ must work, and we will have the No. of days A and E must work, and we will have the No. of days A and E must work, and we will have the No. of days A and E must work, and we will have the No. of days A and E must work, and We will have the No. of days A and E must work, and We will have the No. of days A and E must work, and Ye must work, and Ye must work, and T must work, and Y must work, and Y must work, and Y must work, and Y must work, and T must work, and Y must work, and

No. 47.—By A. S. McGregor, Avonbank. $\frac{1}{2}$ of 120 = 60; and $60^2 = 3600$. $3600 \div 1 \text{ (verse sine)} = 3600.$ 3600 + 1 = 3601 feet, the diameter of the circle. The diameter $=\frac{(\frac{1}{2} \text{ chord})^2}{\text{verse sine.}} + \text{verse sine.}$

No. 48.—By H. T. Scudamore, Wardsville. Let m_1 and m_2 be the respective masses, and v_1 and v2 the respective velocities at time of impact. Then $m_1 v_1$ and $v_2 m_2$ are their respective momen tum.

Their combined momentum after impact = $m_1 v_1$ (6)

(7)

Their velocity after impact $(m_1 \ v_1 - m_2 \ v_2) \div (m_1 - m_2) = \frac{1}{2} (v_1 - v_2)$, since the masses are equal and it is upward and equal to v_2 . (S)

... $\frac{1}{2}(v_1 - v_2) = v_2$ or $v_1 = 3v_2$. The velocity of the first is three times that of the second, and this is independent of the initial velocity, or of the time. Since initial velocity $r_2 = v_1$, we have initial velocity: $r_1 : r_2 = 4 : 3 : 1$.

No. 49.--

+ 1599.8046 = 9598.8276 = the area of the whole 60.116 square inches. Then V60.116 or 7.7534 inches is the distance between each stay bolt, from centre to centre; or 7.7534 - \(\xi\) or - .875 = \(\xi\) \(\xi\) \(\xi\) \(\xi\) ween each stay bolt from

The following methods of solving No. 37, by arithmetic, will no doubt be interesting to our

done per day.

A does 275 - 198, or 77 parts above the av. per day

B " 198 - 165, or 33 " below " "

C " 198 - 150, or 48 " " " "

Should the No. of days of A and B, without C, be in the ratio of 33:77, or 3:7, or 6:14, or 9:21, or 12:28, or 15:35, &c., there would be an average of 2's per day, as A makes up for B's

Again, should the No. of days of A and C, without B, be in the ratio of 48:77, there would

A and B 15 and 35, and A and C 48 and 77. A will then have 15+48=63 days,)

B 35 total 175 days

Then 175 days : 25 days :: 63 days to 9 days A's time : 25 175 :: 77 C's

Second Method.

In one day A does $\gamma_8 = 7\%$. B " 3 = 300. C " 3 = 300 44

B, C, work 25 days; A can do the work in 18, B in 30, C in 33 days; or dividing the work into 990 990th parts, A does daily 55, B 33, C 30. What integers will multiply these three numbers to produce 990, so that the sum of the multipliers shall be 25?

30 divides 990 33 times; so if 0, 0, 33 could be taken as the days of A, B, C, we would have the whole work done; and if we combine multiples of 55 and 33, so as to have a multiple of 30, we shall obtain a distribution of the days different from

0, 0, 33.

The multiple of 55 must be a multiple of 3 because 30 and 33 are so. Similarly the multiple of 33 must be a multiple of 5. Therefore both are multiples of 165, and their sum must be divisible by 30 and therefore by 2; therefore both multiples must be old, or both even. It will therefore suffice to combine a multiple of 165 parts, each 165 being result of 3 days, with a multiple of 165 parts, each 165 being result of 5 days, the remainder will be a multiple of 330, and must be 330 or 660, which, divided by 30, will be 11, or 22 for the days of work.

Now either C's days are 11 and the remaining parts 4×165 must be divided in the ratio of 3 to 1, or 2 to 2, which numbers multiplied by 3 and 5, (the No. of days in which A and B do 165 parts,) must produce 2 numbers whose sum is 25 - 11 = 14; 3 and 1 are these numbers, the products being 9 and 5 for the days of A and B; and we have 11 for C-or ('s days are 22; 22 will not suit, for there would be 330 parts left for A and B, or 165 each, and multiplying 1 and 1 by 3 and 5 we should have A's days 3, B's days 5, C's days 12—the sum of which is not 25. Therefore the only amount is A 9, B 5, and C 11 days.

Correct solutions have been received as follows:

No. 41, Allan F. Pringle, N. Dumfries. No. 37, 41, Thomas S. Menary, Egmondville; John McKenzie, Lorne.

No. 36, 37, 41, Theophilus Hall, Markdale. No. 36, 37, 38, 39, 40, 41, F. W. M., Pt. Dover. The above were received too late to appear in

March No.

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No. 42, John McBean, Jennie Moffatt, Rebecca McKenzie, Lizzie Keachie and John Milroy, all of S. S. No. 21, N. Dumfries; Aaron Break, Riverside; No Name, Sunbury; Wm. H. West, Sarah Lona Macausland, Emily Alice Christie, Thos. Harrop, Edward Harrop, all of Walpole; Geo. A. Clark, Wm. Shrimpton, Trout Lake; Wm. A. Kyle, Morrisburg; E. Higler, Rodney; Stephen Slough, Frederick Wood, Ensign Miller, Andrew Miller, Effic Miller, T. D. M. Metler, all of Fenwick.

No. 42, 46, James Thompson, Cranbrook; Simeon Hicks, Courtland; John Morris, Warwick; Allan F. Pringle, N. Dumfries: Robert O. Huff-man, Riverside; W. H. Grant, Waterloo, Esque-sing; Emma C. Urmy, Selkirk.

No. 42, 46, 47, Thomas Hammond, Henry W. Hoover, Selkirk.

No. 42, 43, 44, 46, Alex. Dickic, Toronto; A. S.

McGregor, Avonbank. No. 42, 44, 46, 47, Thomas McCarthy, Downey-

ville. No. 42, 43, 44, 46, 47, Thomas Worden, Cro-

marty. No. 42, 44, 46, 49, W. Bickell, Clyde.

St. Helens.

No. 42, 44, 46, 47, 48, 49, Alleyn Husband, Metcalfe.

No. 42, 43, 44, 45, 46, 47, Joseph Richardson, Innerkip.

No. 42, 43, 44, 46, 47, 49, Wm. Moir, Fergus. No. 42, 43, 44, 46, 48, 49, James E. Frith, Norwich.

No. 42, 43, 44, 45, 46, 47, 49, John Anderson, Dixic.

No. 42, 43, 44, 46, 47, 48, 49, G. W. Priest, Ayr. No. 42, 43, 44, 45, 46, 47, 48, P. G. Kinamerly, Napance.

No. 42, 43, 44, 45, 46, 47, 48, 49, F. W. M., Pt. Dover; J. W. Place, Augusta.

Answers to Correspondents.

Edward W. Bruce, Bluevale .- Your first and second queries are explained in Text Books; your

A. E. Byers, Cadmus: Problem No. 15, in Companion and Teacher, is similar to the one you propose.

John W. Place, Augusta: Your problem is a good one, and will appear in our next No. Your suggestion will also be mentioned.

A. McIntosh, Pinkerton :-We thought better to place your question in our columns than to answer

it by note; all our readers will notice it.

A. E. Kennedy, Princeton:—Your query will receive attention as soon as possible; we have many other fine problems waiting their time.

A. F. Pringle, N. Dumfries, S. S. 21:—We did not receive the Algebraic solution you sent; glad to see you take such an interest in the Companion AND TEACHER.

We would request our readers to be careful to send all matter for the Mathematical Department to the address at the head of the Mathematical column.

Selected.

Intemperance and Education.

The success of any government depends to a great extent upon the people; unless they are intelligent the country cannot prosper. It is the character of the people that gives the greatest guarantee for the stability of our institutions. No matter how much the matter has been investigated this truth boldly meets us everywhere. In Canada a generous pro-vision has been made for the general education of the people-and our system of free schools is equal to that of any other country; and yet with all our facilities, and the stringent laws passed to enforce education, how many are therein the land who can neither read nor write? Our schools are multiplying yearly-new buildings are erected, more teachers employed, heavier taxes imposed upon the people, greater efforts in the direction of education are put forth, and yet there is still a demand for jails and penitentiaries, and the inmates of these institutions are annually increasing. And what is the cause of this? We have not the slightest hesitation in saying, that it is the facilities for obtaining liquor which is at the foundation of the ignorance, as it is of the crime and poverty which exist.

All through the country there are two opposite systems of education going on-antagonistic to each No. 42, 43, 44, 46, 49, T. Cameron, Arkona. other no doubt—but both established by law, fos-No. 42, 43, 44, 46, 47, 49, James W. Morgan, tered and encouraged by the people—and both costing immense sums of money to support them. of super for character, promoting the welfare of all, use of individuality, comparison, and casuality will building up and consolidating the power of the he pretty certain to enable you to reach satisfactory State.

The other system is the produce of the breweries and distilleries; the off-shoot of the whiskey-shops specially to cultivate memory; and we believe this that are now under the protection of our Christian can best be done by the association of things and Rulers, and licensed by them to educate the rising ideas. If you wish to retain an idea, you have only hope of the country into drunkards, to spread over to specify in your mind a familiar idea, analogous the land a fleed of damage to the country into drunkards and looks. the land a flood of degradation and death, destroy- in some particular to the one you wish to remember; ing the influence of the former system, and of the so all you have to do is to recall the familiar idea

so long as these schools of vice are allowed on every vestigation, themorespeedy, perfect and satisfactory hand. We may build a school-house on every hill, will be your work. We believe, therefore, that all pay the best teachers to take charge of them, and high schools should have a professor whose business fail to have honest, sober and intelligent people, so shall be to teach pupils to think, and even our long at the other, the delaring autum of which are separately should require elementary inlong as the other-the debasing system of whiskey common school law should require elementary ineducation-is permitted to exist, and the dram-struction in the scheme of thinking. -Exchange. shops to stand side by side with our churches, our colleges, and our schools .- Week's Doings.

The Young Should be Taught to Think

We have often suggested in our columns the imthe teacher has to contend with in not is accustoming the pupil to repeat the rules in grammar, arithmetic, and other studies, but to induce him to reflect on the reason why the rules are laid down, and why following the rule produces a correct result-in other words, to teach the pupil to think. correspondent, Mr. R. K. Slosson, reflects in the Western Rural our thoughts on this subject in a cope with the temptations and difficulties of life. somewhat lengthy article, from which we make the following extracts:-

manner. No man has ever become eminent in sci-advantages of careful supervision. ence, art, literature, or farming, who was not a Of course if juvenile journalism inclines in this profound thinker—who did not well examine and direction, it deserves all encouragement, and sustain the principle which public opinion upholds merits banishment from all academies. as being true. It is not a very uncommon thing that a principle has been enunciated by men who and its readers to ponder on which side the balhave pet theories to support, and where it is plain ance lies.
to a thinking, unbiassed mind, that some of the The object of this school journalism estensibly is truch.

ness on all around, and fill itself with real intense sult being greater mental activity applied to other sense of enjoyment unknown to the valisciplined branches, and higher results everywhere. Such mind. This process of thinking should be systematized, so that the mind can bend its energies in full are or can be offered in advocacy of the practise. Whether the designs are accomplished is a questional transfer of the mind can be different are or can be offered in advocacy of the practise. force on one point at a time, and after having examined in this manner the whole ground, the facts tion to which the common sense view suggests a elicited can be classified, managed, and put in a negative answer.

Phere is perhaps no more formidable barrier to because they are forcibly and logically brought to intellectual advancement than vanity—the asbear. If you once acquire the ability to concern sumption, of course, being that nature has not trate the mind, so as not to be diverted from the been remiss in her work. A high opinion of one's

The first of these is the public schools, the em- main question or object in view, you have made a bodiment of onlightened ideas, producing citizens long stride in the right direction, and the vigorous

To assist yourselves very materially you need Churches, and plunging many of our people into a and the new one immediately pops into your mind. A little practice in this way will convince you of its.

The influence of our schools and colleges, even utility, and remember the longer you practice a thorough analysis of the subjects submitted to interest the longer and the subjects submitted to interest the subjects submitted to interest

Is Juvenile Journalism Judicious?

Journalism by school-children is one of the signs of the times, and is, we believe, one only to be witnessed in North America. As those who scan portance of teachers drilling the young people under the Reporter have had ample means of ascertaintheir charge to think. The greatest difficulty which ing, the number of primary schools having journals conducted by the pupils is very considerable; and the question naturally suggests itself, "What are the ends this noval phase of tuiton is designed to accomplish?" Will it convey to them new and valuable knowledge? Will it incite their to more accomplish:
valuable knowledge? Will it incite there,
will it impart experience
Will it impart experience which shall better fit them as men and women to

It is beyond controversy that all scholastic training should have for its aim the fitting of those com-The world is indebted for nine-tenths of its valu- ing under its influence to acquit themselves able knowledge, its improvements and progress gen- knonorably and usefully; and any possessing a tenerally, to men and women who have trained them- dency different from this is, as it ought to be, selves to think in a systematic and consecutive scrupulously climinated from systems enjoying the

compare all the items pertaining to the subject- should be as soon as possible introduced into our to know whether, in their various relations, they public schools; whilst if useless or deleterious it

It is well within the province of the Reporter

important items of the theory are in direct anta- to encourage the study of English composition, to gonism to the principle, and therefore false; or attain excellence in which pupils will, it is held, otherwise, the principle itself has no foundation in strive far more when conscious that their efforts are to be printed, canvassed, and criticized than The earlier, consistent with health, that youth when they labor under the idea that, whether good learn to think, the more massive and powerful will or bad, their work will be unknown outside of be the brain in maturity—the better prepared will their class. An impulse to essay writing will be be the brain in maturity—the better prepared will their class. An impulse to essay writing will be be the mind to shed a glow of interest and happingiven by this species of exercise, it is held, the re-

qualifications or merits is fatal to improvement of to enter them. remarkably clever or a pink of propriety never becomes either, unless he should have the good fortune to encounter enough of the purging which comes of persecution and rebuff to utterly uproof _ his self-esteem and present himself to himself in skill in the useta, arts, of making clothing and his true character. Having discovered how puny manipulating food, and boys, dexterity in the use are his attainments where he most prided himself he excelled, there is some hope for him. Shame alone may force him on to a manly endeavor to supply his short-comings. But where one is so blessed, a hundred go on through life wrapped in their strong faith in themselves. Such are the men who, whilst young, infliet all the harm upon how are they to learn except by practice upon the society which is traceable to licentiousness; who unwary housekeeper? An intelligent girl who learn who had been applied to the stock of the second who are they are are the are they ar later make bad members of the family and dishonorable knaves in business, and who, when at thous to call herself by a professional title until length they verge towards the grave poor and she has carned her right to it is driven back wretched, are scouted, and are despised even by upon the bare fact, the utter absence of all means themselves.

Vanity is a dread evil; and because it is we have no faith in journalism in the schools. Say what upholders of it may, the practice will develop the vice. Outside of the school the work appearing in then they are put through a regular and syste-the papers will be brought under notice, and par-ents and friends with more love than discretion certain principles well established in their minds, will commend it in presence of the dear little pets, which are of use to them all their lives, as well as who are the evolvers, and will make them believe that deeds which are of no unusual worth are sublime and something to be very proud of. Naturally les cufants will get quite stuck up; and when they do, be sure they will "stick." Infuse into them the idea that they are quite Shakesperes or Bacons; they will not require the information that they have attained the pinnacle of greatness. This they will deduce for themselves.

Another reason why we are disinclined from this journalism by scholars is that we believe it is only a dodge of mercenary school principals to bring themselves and their establishments under notice. It is a new advertising scheme merely, which parents may not with impunity allow their children to aid on.

In the national character there is already far more of the love of estentation that is reconcileable had not carned! That was one of the reasons with republican ideas or with virile thought. stead of being encouraged to believe that "splurge" is proper and to be cultivated, children should be taught to contemn it as unworthy of American has no basis upon which to stand; and if the chilcitizens and to hold that sound merit is alone worth being striven after.

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When this style of ethics shall be generally inculcated, school journalism will cease, and the death blow will be struck at twenty-five cent diamond pins; gold Alberts and rings expressly imported to accommodate six-dollars-a-week lightheaded heavy swells; and ten-cent cigars on an of the community.—Demores's Monthly. annual salary of \$150; and there will be hope that even gold-plated harness, liveried footmer, and other un-American extravagances may be banished from our midst.—American Newspaper Reporter.

Industrial Education.

There is no more important problem before this, why it should be taught in Public Schools.—
untry to day than this of industrial education, 1. The influence which music he salways exerted country to day than this of industrial education, and, sooner or later, the country will have to solve over the soul of man, and its consequent almost

Education we have in abundance; we have colleges for teaching astronomy, the dead languages, 2. If the knowledge of it ever becomes general, higher mathematics, and philosophy, capable of its study must be commenced in childhood, before

We have magnificent public The youth who learns to believe that he is schools in which French and Latin and drawing are taught to the sons and daughters of the poorest without money and without price, but we have no schools where any industrial occupation is taught -no school where girls can acquire neatures and of tools.

We charge it upon educated girls that they will not pursue legitimate business callings; but how can they? there is no means by which they can acquire knowledge of them. We blame our untaught scamstresses, dress-makers, and cooks; but wishes to become an expert - who is too conscienby which she can acquire the requisite knowledge and practice.

In France young women pay a high premium for admission into the best dress-making houses; but a knowledge of practical details, which are turned to immediate account.

In the large cities the trouble especially is becoming a serious one. Almost every woman is a beggar, or willing to become one, it she can find any one to give her anything; but if work needs to be done, it is one of the most difficult things in the world to get it well done, or to get it done at

It is a question whether, in our self-laudation, self-respect is not entirely dying out from among us. Certainly that self-respect which is based upon character, upon truth, and honesty in work and life, has few representatives.

Think of the wife of a man like Cornelius Vanderbilt having it to say when she died, only seven years ago, that she had never spent a dollar she why he died worth a hundred millions more or less. We talk about "higher" education, but the higher is of little use unless it includes the lower, for it dern of poor parents have not time for everything, let us give them, through our public schools, in addition to the old-fashioned reading, writing, and ciphering, not a weak smattering of Latin, French, and geometry, but a thorough knowledge of some useful and industrial art, by which they can carn their bread, and add to the comfort and happiness

Yocal Music in Public Schools.

The importance of vocal music as a branch of education has been quite generally acknowledged by educators, and without going into extended argument in its favor, we shall only present a statement of some of the more important reasons

universal use, gives it a prominence as a branch of

holding three times as many students as are ready the organs of hearing and vocalization become so

fixed that musicial sounds can neither be produced nor appreciated.

3. In a sanitary view, singing is a re of the best

promoters of health.

the science gives it as high a position as any other study.

6. Musicas a means of rocal culture is unequalled, and greatly aids in making good readers and

speakers.

7. In the light of economy, the cost for tuition to the parent, in the way of private instruction, would be greatly lessened by having music taught poverty, would otherwise never receive any musical training, would be greatly benefited.

If, then, it is desirable to have music more gen-

WHO SHALL TEACH IT?

any of the valuable text-books that have been preany difficulty in learning the principles of musical science, so as to be able to teach the same to their pupils. If a teacher is unable to sing, undoubtedly seeing that proper practice is given by the school in exercises and songs. In connection with this, aptness to teach only is necessary, and any person who is fitted in other respects to hold the responthe ability, we contend, to learn in a very short gone from school but an outcast and an Ishmael.—time how to teach the elements of music, as well Phrenological Journal. as the other studies required in our common Nor is it necessary that the teacher should be able to sing, in order to be successful in this branch of study, though, of course, it is an aid." Hundreds of instances might be cited to show the success of teachers, who, at one time, thought it impossible for them to do anything in the matter, but who have since earnestly taken hold of it; but it is certainly unnecessary, as we hold that every faithful teacher, who seeks to render to those whose education is intrusted to him the greatest amount of good, will make the experiment, and ascertain for himself whether or, not we are correct. -Educational Weekly.

A Wise Teacher-A Boy Saved.

A boy fifteen years old had been flogged and harshly treated at home and at school until he had 4. Its good influence upon the morals and deportment of the young is incalculable.

5. The mental discipline required in learning the science gives it as high a position as any other. sion from the public school. His father, almost in despair, requested a teacher in the neighboring district, who was known for his great success in managing the worst of boys, to try his son. On entering the school the teacher lent him an interesting book, telling him he might read it the first day, and not commence to study until he had become acquainted with the place. That night in the public schools; while those who, from he told the boy he thought him capal le of becoming one of the best scholars in the school, and that if he would try to excel, he should have every opportunity afforded him, which would enable him erally taught, as a science, in our schools, it will be necessary to consider the question to disappoint the expectations of everybody. The poor outcast opened his eyes with astonishment, amazed that any one should speak kindly to and be interested in him. For several weeks he seemed to forget his wayward habits, and devoted In cities and towns where special teachers are this mind to study with remarkable success, to the employed, but little difficulty will be found in ar- surprise of all who knew his history. One day he ranging the mode of instruction; but in the vast became very angry because the teacher would not majority of schools, no special teachers are emplaid him, at the moment, in solving a problem. He ployed, and consequently it remains for the regular, laid down his books and sat nursing his wrath, and teachers to perform all the work that may be done when the teacher found leisure and offered to aid in this department. In this connection, the questilin, he tartly replied, "I do not wish it." When tion will naturally arise in the minds of many, the school was closed the boy was requested to rehow is it possible for the ordinary school teachers main, doubtless expecting a flegging, as in former to impart musical instruction, since so many know times; but what was his astonishment when the nothing of the science, being unable to sing? Per teacher sat down by his side, and said, "Thomas, haps the best answer is the simple statement that I thought you were willing, and meant to be a all such as have earnestly and perseveringly attempted the work have succeeded, and succeeded among all your acquaintances, which seemed to well. Teachers are accustomed to habits of study give them great joy. Must I now go and tell them and investigation; and if they will make use of that all my hopes for you are crushed, and that all any of the valuable text-books that have been pre-pared for their special benefit, they need not find lost?" Thomas wept under this appeal, for he expected the whip or expulsion from school; and from that hour his reformation was confirmed. After he had found that one, at least, "cared for there may be found some pupils in the school, or a his soul," he became an excellent scholar, and was friend, who can and will gladly assist until the known for exemplary cond: ct, and a more worthy entire school can sing the scale correctly. When man than he is now cannot be found in that neighman than he is now cannot be found in that neighthis has been accomplished, the teacher's work will borhood. He dates the turning point of his life consist in giving instructions in the elements, and and character to that hour with the teacher at the close of the school on that eventful day.

Now, suppose the teacher had allowed his anger we copy the following from the report of the Music to be provoked by the boy's sullen insolence, and Committee of the Boston Public Schools:—"An he had scolded and whipped him, as others had be had scolded and whipped him, as others had done, instead of arousing the boy's benevolence and friendship, and awakening his self-respect and sible position as a teacher in a public school has regard for the opinion of others, he would have

Puzzling Poetry.

Wife, make me some dumplings of dough— They're better than meat for my cough; Pray let them be boiled till hot through, But not till they're heavy or tough.

Now, I must be off to the plough, And the boys, when they've had enough, Must keep the flies off with a bough While the black mare drinks at the trough.

Scientific and Literary.

Blue Glass Mania.

"Blue Glass," about which so much discussion has preted experience always harmonize. Nevertherecently taken place. These will serve to give our readers as thorough an understanding of the subject, as it is possible to give them at present.-En.] will judge it.

been recently affor led than in the blue-glass delusion, which has in some sections acquired almost stitute arranged for t' use of the blue light acthe character of an epidemic. Whether there is cording to the most approved fashion. After a a popular fondness for being deceived or not, there is trial of two months we are unable to see the least certainly a manifest tendancy to receive with advantage which it possesses over the clear, readiness almost any novelty in the shape of a remedy for disease if it is only heralded with a sufficient amount of assurance and is backed by a few reputed "cures."

I asing their confidence upon such grounds as these, hundreds of people have recently been led to make a trial of the blue-light method of creating disease. Quite a business has been established in the manufacture of blue or cobalt glass. in some cities, scores of windows may be seen ornamented with a few panes of "Gen. Pleasarton's blue glass." Every day we pass a window in which hangs a frame containing alternate panes of blue and colorless glass, behind which sits a little cripple suffering with diesese of the spine. His fond parents are vainly watching for the magic in-

which Gen. Pleasington makes for the blue light Point, a breveted Brigadier-General of Pennsylnor to show, as might readily be done, the abvania militia, and a lawyer of prominence, surdity of each one. A careful examination of his Owning a farm just out of the city of Philadelexperiments will show that they were not con- phis, he, in 1860, began to experiment on the inducted in a scientific manner. There were large fluence of the sun's rays as affecting vegetable chances for error in all of them. When analyzed and animal life. Experiments made in Europe carefully it is found that they are wholly incom- had already evidenced that blue rays of the sun

blue light as a remedy for disease.

is that it does not harmonize with science and the ged a grapery covered with glass, every eighth well-known laws of optics and electricity. He row of which was blue, by which means every claims that the blue glass not only isolates, but with and leaf partook equally of the azure increases, the intensity of the actinic or chemical rays. In April, 1861, he set out twenty varieties of rays. Careful experiments conducted by com- grape vines, all cuttings one year old, about the petent observers have show, that the only size of a pipe stem, close to the ground. By difference between blue light and colorless light is september he found the vines had grown forty-that the other rays are imperfectly filtered out by five feet in length, and were one inch in the blue glass, the blue or violet rays being all diameter a foot from the ground. The next year lowed to pass through. It has been proven, how-the vines bore 1,200 pounds of delicious fruit. ever, that the blue light contains much less of the He next tried the effect of his theory on animal actinic or chemical properties of light than color-life. A litter of pigs were placed in a pen lighted less rays. ary light diminished in intensity.

new remedy. Every new remedy can hoast of as four months was a perfectly developed bull. As many "cures." Some of these, without doubt, are an instance of precedity, a heifer, under the blue the effect of the imagination, which has long been glass, became a mother at as early as fourteen recognized as a powerful agent in the treatment of months, a most uncommon circumstance. For the use of the blue light the patient is also subis said to be a sovereign panacea.
jected to a sun bath, the great therapeutic value
of which has long been recognized. No doubt the
light passes through plain and transparent glass
agrees share of the good results claimed for blue, with slight obstruction, as through the atmoslight are really due to the colorless rays which are
mingled with the blue.

The deneral, in his book, says of it: "Sunlight passes through plain and transparent glass
with slight obstruction, as through the atmoshigh are really due to the colorless rays which are
the glass remains cold. When adjoining sunlight,

But it may be suggested that experience might prove the value of a remedy even though its effects could not be accounted for on scientific principles. [Below we give two selections on the subject of out injustice; for true science and correctly inter-"Blue Glass," about which so much discussion has preted experience always because the correctly inter-

For the purpose of testing the value of the blue No better confirmation of the assertion of a Por the purpose of testing the value of the blue cynic, that people Gove to be humbugged has light when compared with colorless eight, we had one of our four sun both request the Hostik Lie one of our four sun-bath rooms at the Health Innatural sun-light just as it was made by the Creator. It really seems quite improbable that the Omniscient should have made so great a blunder as to have so clumsily mingled the constituents of sunlight that it was necessary for Gen. Pleasanton to invent a means to filter out the deleterious rays. -Health Reformer.

Popular manias do not always have a method in their madness; but, nevertheless, they repay investigation, for the mere chance of finding truth and usefulness in one out of a hundred. Of the blue glass man a we can only give facts, leaving it to those who, are scientifically interested to investigate for themselves. General Pleasanton, the accredited medium by which it has been introduced fluence of the blue light to be manifested in restor- to the public, and whose book on the subject is, ing their little one to health. No doubt hundreds as yet, the best authority, is not the far-famed of others are pursuing a similar course. general of the rebellion, but his brother—General We have not space to give indetail all the claims Augustus Pleasanton. He is a graduate of West petent to establish the value which he attaches to had great chemical powers, and that their efue light as a remedy for disease. feet on vegetation, owing to greater heat, was One grave objection to Gen. Pleasanton's theory more stimulating to growth. The General arran-The blue light, in effect, is only ordin-by blue and plain glass equally, and throve mar-liminished in intensity. A sickly and dying bull calf, under It is not surprising that numerous "curcs" are the effect of the blue rays, stood erect in twenty-reported as having resulted from the use of this four hours, was taught to drink milk, and in It should also be borne in mind that in neuralgic, rheumatic, and nervous affections, it

with same velocity (186,000 per second), falls feel that science and religion may walk hand-mon a line glass pane, six out of seven of the pri- hand. They form two distinct volumes of revelaon a line glass pane, six out of seven of the primary rays are arrested and only the blue ray tion, and both being records of the will of the passes. The sudden stopage of the six, with Creator, both may be received as constituting a enormous velocity, produces friction; friction evolves negative electricity, which is electricity the study of both becomes a duty, and is perfectly of sunlight, passing through cold ether of space consistent with our highest moral obligations.

I feel that, as the subject respects my fellowmen, I have done no more than my duty; and I reby induction to rays of sunlight as they pass, flect upon my course with subdued satisfaction, Blue glass is oppositely electrified. When these being persuaded that nothing which I have said or omitted to say in my rubble lectures or lateracter. opposite electricities are brought together, and meet at surface of glass, then conjunction evolves heat and magnetism. The heat expands the molecules of glass, and a current of electro magnotecules of glass, and a current of control netism passes into the room, imparting strength netism passes into the room, animal in it. When the and vitality to any animal in it. When the atmosphere becomes electro-magnified, the inhabitants derive benefit from it." General Pleasanton's book is full of a scientific discussion of his theory, and he boldly combats established theories, and puts his own in their place. He disbelieves entirely the Newtonian idea of gravitation, and holds electricity to be the all-controling force of nature. By, and through it, we live, the earth revolves and planets are held in their places. He denies the sun to be incandescent throwing off heated rays, and also that there is heat in sunlight. He argues, the earth, surrounded by an atmosphere and ether, proved to be of temperature minus 142 degrees centigrade, and says it would be impossible for the rays of the sun to penetrate this cold envolope for a distance of 92,000,000 miles and preserve any heat. He holds We can that heat is evolved from the earth. only advise these interested to investigate the subject themselves, in order to prove or disprove all these theories. The proportion of blue glass on vegetable life should be one-eighth; for animal, of equal force. Already French, savans are making investigations, and testing those discoveries already made.—New York Milliner and Dressmaker.

Harmony of Science and Religion.

Now at eighty-two and a half years of age, still, by God's forbearance and blessing, possessing my mental powers unimpaired, and looking over the barrier beyond which I soon must pass, I can truly declare that, in the study and exhibition of science to my pupils and fellow-men, I have never forgotten to give all honor and glory to the infinite Creator—If I might be the honored interpreter of a portion of His works and of the beautiful struc-For this I claim tiny. of many illustrious predecessors

that, while natural religion stands on the basis of which it rapidly dwindled down to greenish blue revelation, consisting, as it does, of the facts and light. In plain words, this formerly quescent sun, with the moral wants of man. In nature, in God's feeble lustre. In commenting on the above case creation, we discover only laws—laws of undeviat—an eminent English astronomer remarked lately ing strictness, and sore penalties attached to their that all the elements of the catastrophe which has

being persuaded that nothing which I have said or omitted to say in my public lectures, or before the college classes, or before popular audiences, can have favored the erroneous impression that science is hostile to religion.

My own convictions are so decidedly in the opposite direction, that I could wish that students of theology should be also students of natural science - certainly of astronomy, geology, natural philo-sophy, and chemistry, and the outlines of natural

history .-- Prof. Silliman.

A Sun in Flames.

The researches of astronomers tend, it must be confessed, to shake our faith in the stability and immobility of our solar system. There is, for instance, evidence suggestive of the probability that the sun is gradually parting with its energies in such a manner that our descendants will be less thoroughly warmed and lighted than we are ourselves. Again, we are told that should a comet fall into the sun there would be a tremendous outburst of solar heart, whereby the earth and all the worlds which circle around the sun would be destroyed. The latest news, however, from the star world concerns us much more nearly than these scientific speculations, for it tells us of a catastrophe which has befallen a sun, which, like our own and hundreds of millions of others, is the centre of a scheme of circling worlds. Accidents among suns, though rare, do sometimes occur. A few among the suns appear suddenly to have lost a great part of their licat and energy, as though the supply of fuel had suddenly run short. This is had enough, but not so had as would be an accident of the contrary kind-a sun suddenly blazing out with more than a hundred times its usual splendor; such an accident, however, has actually occurred within the last two months. On Nov. 24, the director of the Athens Observatory discovered a star in the constellation of the Swan, where no such star should be. The news was at once telegraphed to the principal observatories, ture and beneficent laws discovered by the labors and the new star was subjected to searching scru-Its brightness increased until it assumed a no credit. It is the result to which right reason markedly yellow color. Spectroscopic examination and sound philosophy, as well as religion, would during the height of brilliancy reveal the presnaturally lead. While I have never concealed my convictions on in the spectrum of the star, evidence of the most these subjects, nor hesitated to declare them on intense and glowing heat. This vivid lustre did all proper occasions, I have also declared my belief, not, however, last more than a few days, after laws which form the domain of science, science has after bursting forth into an intense glow and blos-never revealed a system of mercy commensurate soming with flames of hydrogen, has resumed its riolation. There is associated with natural laws befallen the remote sun in the Swan exist in our no system of mercy. That dispensation is not revealed in nature, and is contained in the Scriptures our sun may not suddenly burst out with terrific alone. With the double view just presented, I splendor, so that a sudden expulsion will take place, and the fires intended to warm our earth blaze forth to its destruction. If this did happen, the sun would probably cool down again to its present condition in a few days, but unfortunately no terrestrial observers would be alive to know whether he did or not, though the whole series of events might form subjects of interesting speculation to the inhabitants of worlds circling round Sirius and Arcturus.—Witness.

Poetry.

Peggy Macdonald.

Well, Peggy was pretty; indeed, it was said That Peggy possessed the most beautiful head That there was in the land. Complexion so fair! Such tender blue eyes! Such radiant hair! She lived in the country. The bloom of the rose Was seen on her cheek. And even her nose Possessed the same tint: but that was no harm, For Peggy Macdonald was raised on a farm.

But Peggy was pretty; and then, what was more, Her father had riches in bountiful store. His income was large and his debts very small, And Peggy, you see, was the heiress of all. And this is the reason that gallant young eyes Were looking on Peggy; though she was a prize, So sweet and so charming, so lovely herself—Of far greater value than all of her pelf.

Just north of Macdonald's, and on the same road, Stood a neat little cottage, in which there abode A pleasant young fellow, Jim Crayton by name, Hard-working and honest. Now, Jim was the same

Who first went with Peggy; in fact, her first beau, When both were but children, a great while ago. In those early days there was kindled a fire By the light of the eyes that could never expire.

Yes, Jim truly liked her deep down in his heart, But waited for something to give him a start To tell her his passion; but always somehow His throat would choke up and his speech wouldn't

Thus he, always nursing his love in his breast, Dared not put his doubting forever at rest, While Peggy, sweet creature, was dying to hear The story Jim wanted to pour in her ear.

Just south of Macdonald's, and on the same road, Was another nice dwelling, and in it abode Another young fellow, Tom Turner by name; And he, too, loved Peggy; but she was to blame, For often, on Sundays, when both were at church, And Tom's eyes were wandering, so restless, in search

Of some one like Peggy, her lovely eyes burned With language that told him his love was returned.

But Tom was so timid and bashful withal, He never could talk to the maidens at all. Like Jim, he kept waiting and living in hope That some time and some how the ice would be broke.

But all of his waiting and hoping were vain, For, waiting and hoping, he let it remain As it always had been: he never could find A fitting occasion to tell her his mind.

Now Peggy liked both; 'twas too painful a test To decide in her heart which she did like the best; For the neighbors said each was a very fine catch, And Peggy was longing to make a good match. But what could she do if they never came nigh, But did all their courting alone with the eye? While silence is golden, sometimes, it is said, Some brass is much better for those who would wed.

And so it went on; and thus year after year Each suitor was jealous, and slave to a fear That the other had asked her to share in his lot; Yet each one was hoping the other had not. When much time was wasted in doubting and fear, At last it was whispered in Thomas' ear That Peggy had promised his rival to wed: The guests were invited, or so it was said.

The very same story was told unto Jim— Important exception, it was not to him, But Thomas, his rival, the prize was secure, And this was too much for a man to endure. One morning, soon after, the country around Was thrown into fear and excitement profound; The suitors their cowardice plainly had shown, For both had departed for regions unknown.

Going Home.

Where are you going so fast, old man?
Where are you going so fast?
There's a valley to cross and a river to ford,
There's a clasp of the hand and a parting word,
And a tremulous sigh for the past, old man;
The beautiful, vanished past.

The road has been rugged and rough, old man; To your feet it's rugged and rough; But you see a dear being with gentle eyes Has shared your labor and sacrifice, Ah! that has been sunshine enough, old man; For you and me, sunshine enough.

How long since you passed o'er the hill, old inan;
Of life? o'er the top of the hill.

Of life? o'er the top of the hill.

Were there beautiful vales on the other side?

Were there flowers and trees with their branches wide,

To shut off the heat of the sun, old man; The heat of the fervid sun?

And how did you cross the waves, old man? Of sorrow; the fearful waves? Did you lay you dear treasures by, one by one, With an aching heart and "God will be done," Under the wayside dust, old man; In the grave 'neath the wayside dust?

There is sorrow and labor for all, old man;
Alas! there is sorrow for all;
And you, preadventure, have had your share,
For eighty long winters have whitened your hair,
And they've whitened your heart as well, old
man;
Thank God, your heart as well.

You're now at the foot of the hill, old man;
At last at the foot of the hill.
The sun has gone down in golden glow,
And the heavenly city lies just below,
Go through the pearly gate, old man—
The beautiful pearly gate.

The state of the s

Address to the Skeleton in the Royal Academy.

CONTRIBUTED BY W. R. B., BROCKVILLE.

About forty years since, the following lines were found deposited in the case containing the skeleton, at the Royal Academy, London, England. believed that they were written and deposited there by one of the students. We think they have never been published in America before.

'Behold this rain! 'twas a skall, Once of ethereal spirit full; This narrow cell was life's retreat, This space was thought's mysterious seat. What beauteous pictures fill'd this spot! What dreams of pleasure long forgot! Nor love, nor joy, nor hope, nor fear, Has left one trace or record here.

"Beneath this mouldering canopy. Once shone the bright and busy eye. But start not at the dismal yoid— If social love that eye employ'd If with no lauless fire it gleam'd, But through the dew of kindness beam'd, The eye shall be for ever bright When stars and suns have lost their light.

"Here, in this silent cavern, hung The ready, swift, and tuneful tongue.

If falsehood's honey it disdain'd,

And, where it could not praise, was chain'd. If bold in virtue's cause it spoke, Yet gentle concord never broke That tuneful tongue shall speak for thee When death unveils eternity.

"Say, did these fingers delve the mine, Or with its envied rubies shine? To hew the rock, or wear the gem, Can nothing now avail to them?
But if the page of truth they sought. Or comfort to the mourner brought, These hands a richer need shall claim Than all that wait on wealth and fame.

"Avails it whether bare or shod These feet the path of duty trod? If from the bowers of joy they fled, To soothe affliction's humble bed; If grandeur's guilty bribe they spurn'd, And home to virtue's lap returned These feet with angel's wings shall vic, And tread the palace of the sky.

The Allurements of Mathematics.

"Come where the constants for thee do wait, Come to the variables, and do not be late, Where the Radius of Curvature never is still, And the Osculatory Circle goes round like a mill.

Come! oh come! Tum, ti tum, tum! Differentiate first, and then take the sum."

"Come where the Ellipsoid goes round, like a top, And still is revolving, never to stop. Where the song of the Hyperbola never is silent. And the howl of the Cycloid excessively violent, Come! oh, come!

Fi, fo. fum ! With the Log of Naperian base = 1." "Come where the body of an initial velocity Is forced on your notice, with great animosity, Where the Asymptole is tangent, at an infinite dis-

And gravity is inverse, as the square of the distance.

Come! oh, come! Tam, ti tum, tum, With a moving force, measuring, momentum."

Fireside Department.

Mrs. Gordon's Lot.

It not unfrequently happens that men who are doing a large business are quite ignorant of how they stand, and when death intervenes their families are left unprovided for, Such was the case with William Gordon. He was stricken down suddenly, and died in less than a week from the time His family had scarcely roused of his attack. themselves from the grief which this bereavement brought with it, when they were called upon to bear another. It was found that on settling up Mr. Gordon's affairs, not more than a couple of hundred dollars were left for the maintenance of his family. In addition to this, though it was hardly thought worth mentioning, was a tract of land located somewhere in Illinois, which Mr. Gor-don had purchased some years back for a mere song, and which was probably worth no more now than at that time.

The Gordon family consisted, besides Mrs. Gordon, of two children, one a daughter of eighteen, the other a boy of twelve. Isabel Gordon was attractive both in mind and person, and before her father's decease had been quite a belle in society. Then, however, her father was thought to be wealthy. Now that the family was almost penni-less, a change quickly took place. Those who had before been considered intimate friends became chilly in their manners and seldom called. cminy in their manners and seidon called. Still there was one ground of hope left. Isabel had been sought in marriage by a young man in an excellent business, producing a large income, and at her marriage her mother and brother would undoubtedly be invited to make their home with her husband. But failing prosperity was a touchstone which revealed the inherent baseness of Gerald Rhodes. He did not call upon the family for some time after their affliction. At length he called, time after their affliction. At length he called,

but did not appear as easy as usual.
"We have expected you before," said Mrs. Gordon, with something of reproach in her tone.

"I hardly thought you would wish to see me

while you were overcome by grief."
This was plausible and might be true, but there was a stiffness in his tone which led to a suspicion

of insincerity.
"I am so glad you are here," said Mrs. Gordon.
"I wish to consult you about our plans for the future. You know, of course, that we are loft with

little or nothing."
"So I have heard," said the young man in a constrained tone.

"And we must, of course, make up our minds to be doing something. I have heard that you have a vacancy in your store. Perhaps you would rea vacancy in your store. Perhaps you would re-ceive Charlie into it? I feel obliged to take him away from school."

"I am afraid he is too young for my purpose,"

said Gerald Rhodes, in rather a forbidding manner. "How old a boy do you expect to get?"

"About fourteen. "Charlie is twelve."

"I-the fact is-I scarcely think he would an-

"I—the fact is—1 searce, said swer."

"I think you mentioned two months since," said Rhodes, with interest field indignation, "that "If I am not mistal think you mentioned two months since," said Rhodes, with interest to the large Market and the said have a Market Mrs. Gordon, with justifiable indignation, "that "If I am not mistaken, it was purchased years you should like very much to have Charlie in your ago for a trifle by a Mr. Gordon of your city. 1 employ. But perhaps your feelings toward other was acquainted with the former owner, who regrets members of the family have been affected by our very much that he did not retain his hold upon it." change of circumstances? I am confident that "Mr. Gordon!" exclaimed Gerald, starting. Isabel will not wish you to consider yourself bound to her against your will."

"I am quite of your opinion, Mr. Rhodes," said Isabel, who had just entered the room and heard wealth, the last words of the speaker, "and I cannot be Then too grateful to the change of circumstances, bitter Isabel for my wife. I have always liked her, as they may be m other respects, which has retice only objection I had was her poverty. Needed to me the true character of the man to whom this is removed, and I need feel no hesitation. I was about to sacrifice my life.

As she stood erect, with flashing eyes and flushed cheeks, looking down upon her recreant lover, he given up."

sir," said Isabel, proudly, "nor could you have this manner. When, some months since, we taken a more effectual method for dissipating what- agreed to separate, I did not know my own heart, ever of regard I once had for you. For that I feel nor how much you were endeared to me. I fancied grateful to you.

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left the house. connection. How fortunate it was that I didn't has or has not any property. My chief desire is marry last spring, as I thought of doing. Then I to find one whom I can esteem and love. Let me couldn't have helped myself. Now I am well off hope to receive a favorable answer, and that the old with it. And yet she did look handsome when she relations existing between us may be renewed. stood there looking at me. I wish things hadn't happened so, for I shan't soon meet with one that would have done more credit to my choice."

employment. Isabel procured a school that yielded to my employ."
her an income which, though not large, was of the amazement of Isabel on receiving this letessential service in procuring the family comforts, ter can scarcely be conceived. She did not for a

smaller house, and lived frugally. Of course, too, changed as this letter would seem to imply? Was they were obliged to submit to many privations, it possible that, after all, he had been cured of the and Charlie's education was suspended. From this meanness which she supposed inherent? She did condition they were finally relieved, and, strangely not know, but even if her love remained, the enough, by Gerald Rhodes himself. As the read-charles was too great and too sudden for her to er's curiosity is no doubt excited by this state-credit without suspicion. Besides, she had met

cago the spring after Mr. Gordon's decease. this was the first time he ever visited this enter-prising Western city, he had a curiosity to look following reply:

"Mr. Gerald Rhodes received the following reply:

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"Mr. Gerald Rhodes wa His attention was called, in the course of a morn the receipt of your note of yesterday, in which

"That land," he remarked, "will soon become

of great value."
"Yes," was the roply, "the city is fast reaching it, and it will soon be cut up for building lots. Five years hence and it will be worth, I am confident, not far from a hundred thousand dollars.

"To whom does it belong?" inquired Gerald

"Yes; do you know him?"

"I did formerly," said the young man, evasively. Gerald Rhodes had now plenty to think about. "I was about to speak of that," said Gerald Gerald Rhodes had now plenty to think about. Rhodes, in a tone half of shame, half of deter-like had no doubt, in his own mind, that this was mination. "I have been led to think of late that the lot belonging to Mrs. Gordon, and it was eviwe were not so well suited to each other as we supdent that she was entirely ignorant of its value, posed, and perhaps it would be well to sever the After all, it would have been a good speculation to marry Isabel. A hundred thousand dollars in five years was no trifle. It would at least trable his

eath.
Then came the thought "Perhaps I can yet win tabel for my wife. I have always liked her, and controllection I had was her poverty. Now don't believe she will refuse me. A husband with fifty thousand dollars is too great a catch to be

covered beneath the glance, and stammered out that he wanted to do what was right, and hoped that he had not hurt her feelings.

"You need not trouble yourself on that score, sir," said Isabel, proudly, "nor could you have this manner. When, some months since, we there was an uncongeniality, but I confess it was Gerald Rhodes did not find it agreeable to re- a delusion. I have since found that I did not know in much longer.

Tou will not, I hope, think that your main much longer.

"Well, I'm glad it's over, muttered he as he change of circumstances had anything to do with he house. "I don't want to be tied to a beg-influencing me. Fortunately I have enough to When I marry I want to extend my business, make it quite indifferent to me whether my wife

Yours affectionately, GERALD RHOURS.

P. S.—There is a vacancy in my store, and I It was now necessary for the family to seek some shall be happy to receive your brother Charlie in-

Charlie also obtained a place in a store, and he, moment think of accepting the proposal it conton, was able to contribute his share; while Mrs. tained. She had once lost confidence in Gerald Gordon took charge of the housekeeping, and did Rhodes, and with her confidence and respect had plain sewing. Of course they had moved into a vanished her love. Was it possible that he had so ment, I will proceed without delay to detail the circumstances.

In the course of business he was called to Chilitle, and she felt that she had never truly loved As until she met him. The next day after his own

ing walk, to a large tract of land just outside the city. You express a desire to revive the relations exist-

ing between us before my father's decease. that time my feelings have entirely changed towards you, and I am led to doubt whether they were ever of such a character as to justify matri-I may add that I have plighted my faith to another, and the marriage will take place at an early day. You will see, therefore, that I am obliged to answer you in the negative. Nevertheless, courtesy requires me to thank you for the preference you have indicated.

ISABEL GORDON.

P. S.—My brother is already in an excellent dissatisfied recipients of his favors. place."

must resort to something different."

It was not long before he devised another plan. ever, for him to transact the business in person, since they would be likely to suspect him of some design in the affair, especially when they remembered his renewed proposal. He accordingly placed the matter in the hands of a lawyer, with these instructions:

"You are to offer one thousand dollars in the first place. your offer.

Erasmus Quill, attorney-at-law.
"I am informed, madam," he said, "that you have a lot of western land in your possession."

"My husband had such a lot, and I retain it."
"Would you like to sell?"

"If I could get a fair price," she answered.
"I am authorized by a client to offer you a
thousand dellars for it," said the lawyer.

Mrs. Gordon had little acquaintance with business, but she had shrewdness enough to perceive that if a thousand dollars was the first offer for the land, it must be worth a great deal more. accordingly declined the proposition.
"I will give you two thousand," said Mr. Quill.

some hesitation.

"I will sell for that sum," said Mrs. Gordon. "Then we will draw up the papers at once," said Mr. Quill.

money paid.

With the deed in his pocket, Gerald Rhodes advice, again went out to Chicago, when, what was his "Ha dismay to find that he had been misinformed—that the Gordon lot was situated five miles from the city and was not worth five hundred dollars. cupidity he had overreached himself, and Mrs. dred in the presence of your friend and come to Gordon was the gainer.

This piece of good fortune enabled Isabel to He marry at once. Fortune smiled upon her husband friend.

Paddy and the Bees.

The scene is on the lawn of the O'Donoghue's stle in Kerry. The tenants have assembled to castle in Kerry. The tenants have assembled to meet the worthy English Baronet who had purchased the property, and 7/ho with his sgent standing in the parlor window watched eagerly for some result of the many "improvements" which at great cost he had endeavored to introduce to the The wild and untutored peasants of the district. agent presents the tenants to the worthy innovator. who inquires into the condition, of the grumbling, At length on a tenant presenting himself whom the agent fails "Confounded fool!" muttered Gerald Rhodes, to recognize, the baronet turns to the figure before discomfited, when he read this note. "So she is him, which, with head and face swollen out of all otherwise provided for, and there's no chance for proportion, and showing distorted features, and me to get possession of the land in this way.

must resort to something different."

proportion, and showing distorted features, and hery eyes through the folds of a cotton handker-chief, awaits his address in sullen silence. "Who It was not long before he devised another plan.

It was not long before he devised another plan.

It was this. He would propose to buy the land, which he could undoubtedly do for a small sum, as Mrs. Gordon could not be acquainted with its value. Thus he would get it without the incumbrance of a wife. It would not be prudent, however, for him to transact the business in person, "Yes, it is your doin," answered the enraged provinces of the swelley head. "It all your doin," answered the enraged provinces of the swelley head. "It all your doin," prictor of the swollen head; "'tis all your doin', and well you may be proud of it; 'twas them blessed bees ye gev me. We brought the bastes into the house last night, and where did we put thin but in the pig's corner. Well, after Katey and the children and myself was awhile in bed, the If not accepted, gradually increase pig goes rooting about the house, and he wasn't I authorize you to go as high as ten asy till he hooked his nose into the hive, and spilt thousand, and will place the money in your hands.

If they agree, draw up the papers at once."

The next day Mrs. Gordon received a call from through an house, the bees sittled down on me, an' began stingin me, an' I jumped into bid agin, wid the whole of thim after me, into Katey and the childer; an' then, what wid the bees a buzzing an' a stingin' us under the clothes, out we all jumped agin, an' the sorra such a night was ever snent in Ireland as we spint last night. What wid spent in Ireland as we spint last night. What wid Katey an' the childer a roarin' an' a ballin', an' the pig tarin' up an' down like mad, an' Katey wid the besom, an' meself wid the fryinpan, flattenin' the bees agin the wall till mornin', begor its ashamed of yourself you ought to be."—" O'Donoghue," by Charles Lever.

Curran's Ingenuity.

This confirmed her first thought.

A farmer, attending a fair with a hundred pounds "Mr. Quill," she said, "will you oblige me by in his pocket, took the precaution of depositing it mentioning the utmost that your client authorized in the hands of the landlord of the public house you to offer. Otherwise our conference closes." at which he stopped. Having occasion for it "Ten thousand dollars," said the lawyer, with shortly afterwards, he resorted to mine host for payment. But the landlord, too deep for the countryman, wondered what he meant, and was quite sure no such sum had been lodged in his hands by the astonished rustic. After ineffectual In fifteen minutes the sale was effected and the appeals to the recollection, and finally to the honor of Bardolph, the farmer applied to Curran for

"Have patience, my friend," said the counsel, speak to the landlord civilly tell him you have left your money with some other person. In his friend with you, and lodge with him another hun-

He did so, and then returned to his legal

till even, in a pecuniary view, Isabel had done as well as if she had married Gerald Rhodes. er off for this, if I get my second hundred back

again. But how is that to be done; "Go and ask him for it when he is alone," said the counsel.

"Why, sir, asking won't do, I am afraid, without my witness, at any rate."
"Nover mind; take my advice," said his coun-

sel; "do as I bid you and return to me,

The farmer returned with his hundred pounds, very glad to find that once more safe in his posses-

sion.
"Now, sir, I must be content; but I don't see

that I am much better off."

"Well, then," said the counsel, "now take your friend along with you and ask the landlord for the hundred pounds your friend saw you leave with him.'

We need not add that the wily landlord found that he had been taken off his guard, while his honest friend returned to thank his counsel exultingly, with both hundreds in his pocket.

A Royal Joke.

One does not think of Frederick the Great pri-arily as a joker. His life was anything but marily as a joker. His life was anything but humorous, and was the cause of more tears than smiles. But Fredericksloved a joke, especially if there was spice of maliciousness in it. His whole intercourse with Voltaire was a great comedy—a burlesque of friendship and literary patronage. On one occasion Voltaire requested the privilege of reading a new poem to him. Frederick was de-Frederick was delighted, and named, an hour when he would graciously listen to the latest production of the great At the appointed time Voltaire appeared, manuscript in hand, and read the poem. The king had meantime secreted behind a screen in the same room a man of a wonderful memory, who had the gift of repeating any composition, however When lengthy, to which he had once listened. Voltaire had concluded his recital, Frederick ex- 12 to 1, a prince in India; 2 to 8, instruction pressed great admiration, but declared the had to 10, a popular magazine; and 6 to 12, rivalry. heard the poem before. The poet was indignant, repelling the charge of plagiarism with great warmth. The king, however, insisted that the poem was by no means of recent origin, and said there was a man in his court who could repeat it from beginning to end. He sent for the man who had been concealed behind the screen, and who have come to hand. We are sorry we cannot use repeat a certain poem, quoting the first lines. The lany, but we will probably give in our next number man instantly, and to the great astonishment of a double piece, the "Students' Reunion." Voltaire, repeated the poem word for word. indignation of the poet, when he discovered the trick, may be more easily imagined than described.

Children's Department.

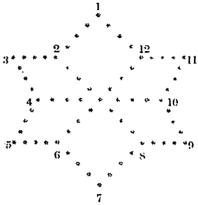
Having several hundred letters on our table from our young friends, we are unable to examine them in time to make our awards of prizes in this Nor have we space to insert any of the We hope very excellent letters we have received. they will pardon us, but perhaps it is as well, for continually adding to our lists from these places. doubtless every one who wrote to us is expecting. Our neighbors across the line are much interested to see his or her letter in the County of the continually adding to our lists from these places. to see his or her letter in the Companion. course that could not be done, and the disappointment to those whose letters are as well written as in view of this it should be they could perhaps make them, but not so creditable as those of some who have had more practice possible, and to vie with the or experience, will not be so great when they find that none are more fortunate than themselves, subscription we cannot afford to place canvassers

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We present this month a new puzzle, which we think will prove very interesting. Solutions must be received before May 20th, and all who send re-plies will be allowed to compete for the prizes which we will offer in our next number. Our next prizes will be offered for the solution of puzzles that will be given in the April, May, June and July numbers, and will be distributed on a plan that has never before been adopted in Canada. out for our next number, and do not forget to ask all your young friends to get their papa or mamma to subscribe for the Companion and Trackers.

Canada Star Puzzle.



1 to 2 signifies a military instrument of music; 2 to 3, very desirous; 3 to 4, remains; 4 to 5, to seize; 5 to 6, to lift; 6 to 7, a decree; 7 to 8, conveyed; S to 9, not at any time; 9 to 10, a bird of prey; 10 to 11, to whinny; 11 to 12, a harbour; 12 to 1, a prince in India; 2 to 8, instruction; 4

Publishers' Department.

& Too Late Again. - Just as we close our forms

DON'T FORGET IT .-- A liberal support and a reasonable addition to our subscription list will enable us to complete arrangements for further improvements with the opening of our next volume. November if our friends will during the coming six months double our subscription list, which now numbers about 1,500 subscribers. This is not an impossibility, for if only one-half of the teachers in Ontario, numbering over 6,000 were enlisted, the work would be done. We have, however, al-ready a very respectable list of subscribers from the other Provinces and the United States, and are in our system of education, and look to the Com-PANION AND TEACHER for particulars thereof; and in view of this it should be our endcavor to make our magazine as presentable and interesting as possible, and to vie with them in the support of At our present rate of

whom should be sufficiently interested, and many of whom are, to speak a good word for our magazine on every occasion upon which opportunity offers. Inspectors can do a great deal to extend our circulation by making it a part of their work at every school to recommend the COMPANION AND Teacher to both trustees and teacher. There are hundreds of teachers even in Ontario who have not | Canada. yet seen it or heard of its existence, and without the aid of Inspectors we will find it very difficult to reach these. We are glad to be able to say that Inspectors are beginning to wake up on this subject, and having satisfied themselves on the character and stability of our magazine, have comin 47 names within three months, and others who have yet done nothing have written their approval of our work, and promised to recommend it to all. Every teacher who is alive to the importance of his work will not only subscribe for a good home educational journal, but will use his endeavors to extend its circulation by inducing his friends and trustees to subscribe; and we venture to assert that those who thus manifest their interest in the cause of education will receive the approval and support of those whom he induces to subscribe for a magazine in every way so worthy of their commendation. Our readers will pardon us for speaking thus freely of the merits of our magazine, since we but reflect the sentiments expressed by so many hundreds when they sent in subscriptions. We want all to understand that we are in earnest when we agree to enlarge in November, for we know that if our conditions are met, and our list is doubled by that time, we can in a few months thereafter add 2,000 more subscribers to the list. How many of our readers are sufficiently interested in the support of a spicy educational magazine of their own, to give it the assistance it requires to complete the improve-ments contemplated? We shall see. Meantime, dear reader, what are you doing for us?

THE NEW YORK SLATE PAINT Co., whose advertisement has appeared in our magazine, as well as nearly all the leading papers in Canada and the United States, are swindlers. We believe that other publishers will agree with us that if Geo. P. Rowell & Co., of New York, whe claim to be the printers' and publishers' champion and protector, had exposed them at an earlier date, they would have shown themselves much more worthy of the patronage they seek at our hands. It may not be their business to enquire whether every advertiser is sound and reliable, but when a firm doing business in their own city sees fit to insert advertisements in a thousand papers throughout the country, and for which advertisements they never
THE BEST ME

in the field, but must rely on the assistance volun- Slate Paint Co." has put money in our pocket, tarily given us by Inspectors and Teachers, all of In the meantime, when we want news pertaining to the craft, we shall search for it in the columns of the "Printers' Miscellany," St. John, N. B., or the "Dominion Stereotyper," Brockville, Ont., both of which are creditable and reliable journals, and though only in their first year, have already secured extensive circulations and a good business connection in the United States as well as in

A RAID ON TRUSTERS .- We want to circulate the Companion and Thacher more largely among trustees, and to accomplish this end we make the ject, and having satisfied themselves on the char-acter and stability of our magazine, have com-menced to work up its circulation. One has sent the satisfied themselves on the char-chrome, "Maggoire," "Lucerne," or "Isola the satisfied themselves and stability of our magazine, have com-chrome, "Maggoire," "Lucerne," or "Isola the satisfied themselves on the char-chrome, "Maggoire," "Lucerne," or "Isola the satisfied themselves on the char-chrome, "Maggoire," "Lucerne," or "Isola the satisfied themselves on the char-chrome, "Maggoire," "Lucerne," or "Isola the satisfied themselves on the char-chrome, "Maggoire," "Lucerne," or "Isola the satisfied themselves on the char-chrome, "Maggoire," "Lucerne," or "Isola the satisfied themselves on the char-ter on the satisfied themselves of themselves of the satisfied themselves of of their three trustees and \$1.50 for the C. AND T. six months on trial, the chromo to be framed and hung up in the school. This is an opportunity few trustees will refuse to accept, as by paying 50 cents he secures our magazine for six months and helps to procure for the school a handsome chromo. If any trustees decline to subscribe teachers may substitute for their names that of any other parent in the section. If preferred, we will receive the subscriptions of the three trustees (without chromo) for six months, for one dollar—or only 33 cents months, for one dollar-or only 33 cents each-it being understood that this is for a trial months, trip only, and that the offer will not be repeated. If more than one club can be got up in any section, the orders will be filled by us at the same rate and on the same conditions as above. Roll in the names of the "territorial rulers." 11年1日かり

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To CITY SUBSCRIBERS,-We have several hundred subscribers in this c.ty, some of whose subscriptions expire with this number. To many of these we know our paper is not so interesting as when a year ago only fireside matter was published, but we hope to retain the majority on our list, particularly as we can afford to make them a more liberal offer than we could afford to our subscribers generally. We will receive their subscriptions for six months, to complete the present volume, and will give them besides either of the chromos "Maggiore," "Lucerne," or "Isola Bella," for \$1. This we can do because we will not have mailing expenses to pay on their premiums, and be-cause, in addition to this, we in most cases realize a small profit from the framing of their premiums. Subscriptions will not be solicited by a personal canvass, but those finding this item marked will please understand that their time is out, and that if they want to continue they must call at our

THE BEST MEDIUM. - "We find the Companion intended to pay, we hold that G. P. Rowell & Co. AND TEACHER the best medium for advertising, and owed it to their patrons to say that they were not reliable. Instead of this, after hundreds of pub lishers have been swindled, they vouchsafe a little second-hand information to the effect that "one of the victims of the Co.,—— has been looking up the standing of the firm, and claims that their advertise being a first-class article, and one which advertise being a first class article, and one which can only be secured through them. The Ontario Gun Agency says. "Having had good returns from whole assets would make a five-dollar bill blush." can only be secured strong. "Having had good returns from As for ourselves, we were induced to insert the adour last advertisement, we will give you two for vertisement from the fact that so many respectable our last advertisement, we will give you two for your next issue." Advertisers who have the right after, we shall judge and act for ourselves, and may class of goods to dispose of will find our readers be able to say at some future day that the "N. Y. an intelligent class of purchasers.