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# The Canada $\mathcal{E}$ nool Journal. 

## Vor. XI.

## Table of $\mathbb{C}$ ontents.



## - THE CANADA SCHOOl dOURNAL

An Silucational Journal devoted to Literature, Science, Art, and the advancement of the teaching profestion in Canada.

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CANADA SCHOOL JOURNAL PUB. GO. Limited), Ofeice: Toronto, Ontario.

Prof. Woodward, of the St. Louis School of Manual Training, describes the object of the new primary education to be "to put the whole boy to school." "In other words," as the School Bulletin says, "it trains his hand, his eye, his nerve, his muscle, his judgment, instead of simply cramming his brain with a great mass of facts, mostly rubbish."

We are glad to note in our exchanges indications of activity in the formation and working of literary societies in connection with many of the schools. A well conducted literary society is in itself an excellent educator. Teachers will do well to aid and encourage them. They can do much, unobtrusively, to give them a bent in the right direction.

In reply to inquiries, we desire to say that we are always glad to receive items of educational news from teachers and others. We want to fill our columns with just the kind of matter that will be of most interest and profit to our readers. We shall be thankful, too, for suggestions and criticisms, -anything that will help us to find out weak points in the Journar.

We are thinking and planning with a view to making the Journal the coming year still better than it has ever been. Wethink we see our way to several improvements. We want, our friends to help us, especially in the way of practical methods, tried and proved, for the school-room. Will not teachers of experience give us these for the benefit of their less experienced brothers and sisters? The Journal was first in the field. We mean it to be last, and it shall not be for want of pains on our part if our readers do not pronounce it. best.

The ventilation of school-rooms, especially in winter, is one of the teacher's most serious difficulties. The importance of good ventilation can scarcely be over-rated. Neither teacher nor pupil can do good work, or preserve the cheerful, elastic frame of mind which is one of its conditions, in an atmosphere vitiated as that of every room containing a considerable number of pupils must become in a short time when doors and windows are closed. Time will be saved and health and good spirits promoted by frequently throwing open doors and windows for a few minutes, and having the children form into line and march briskly around the room until it is thoroughly charged with fresh air. No wise teacher will neglect to do this.

Much attention is being given in these days to the teaching of temperance in the schoo's. There is reason to hope that by the knowledge imparted of the effects of alcoholic stimulants upon the physical system, and especially upon the brain and nerve apparatus, a powerful impetus will be given to the cause of temperance. The next generation should be a much more sober and healthful body than the present. But how about tobacco ? Few will deny that it, while of course a lesser evil, is yet one of the vices of the day. The narcotic poison can be only less injurious than the practice is disagreeable and disgusting to those who do not use the weed. These, including the ladies, are the great majurity, a fact which is too often forgitten. On which side is the influence of the schools? How many teachers in Canada are slaves of the habit?

Mrs. Fawcett, in her opening address to the students of Bedford College, England, rightly rebuked the too prevalent notion that the value of education can be computed on a commercial basis. Commenting on Mrs. Lynn Linton's assumption in a recent article that money spent for the higher education of woman was thrown away if it did not increase therr power of making money, Mrs. Fawcett said that some people would always take that view of education, but it mas a false one. The value of education was not to be computed in pounds, shillings, and pence; but, even viewed in that sordid light, the professional careers open to women to-day show that a high education has its pec̣uniary value. So it undoubtedly has, but it is a degradation of the very notion of education to estimate it, in woman or man, wholly or chiefly in reference to its money value.

We are requested by the Educational Deparment to announce that the following selections from the Literature prescribed for third class teachers non-professional examinations, will be repeated for $1887-8$ :

## Prose.

No. XV.-Addison-The Golden Scales, pp. 88-92.
No. XXII.—Goldsmith—From "The Vicar ot Wakefield," pp. 127.133.

No. LX111.-Thackeray-The Reconciliation, pp. 308-355. No. LXXIV.-George Eliot-From "The Mill on the Floss," pp. $35^{66} \cdot 359$.

> 'Poctry.

No. IXVII.-Longfellow-The Hanging of the Crane, 1pp. 336-342.

No. LXXIX.-Tennyson-The Lord of Burleigh, pp. 370 372.

No. IXXXXI.-Tennyson-The Revenge, pp. 373-377.
No. CV.-E. W. Gosse-The Return of the Swallows, pp. 437-438.

President Dwight says that he cannot help feeling that "the great defect of the past and the present education lies it tiue wan: of personal and individual intercourse between the teacher and his pupils-in.mediate contact of the mind of the former with the mind of the latter-in such a degree as is to be desired for the pupil's highest inspiration. Our system of education, which has been growing in popularity of late in all our higher institutions of learning, places the student far too much in a kind of great machine, where his individuality is lost in the working of the machinery. It is the mind and the man which we need to develop, and to this end something more than textbooks and examinations are necessary." This is a most important truth. The main cause of the defect lies in the fact of the great disproportion in numbers between teachers and pupils. The ideal system of education, whether in school or college, would be, to our thinking, that in which each educator had to do with not more than from half a dozen to a dozen pupils at once. In the crowding and confusion of the fifties and the hundreds, the individuality of the pupil is in a large measure lost sight of, and the power that wrould be engendered by close personal contact is dissipated. More over, in the Public Schools an immense amount of time is lost to both teacher and pupil in the management and movement of the ponderous macininety. We an act know that the:e is any help for it, save in the case of those who are able and willing to pay for more and better teachers. It is better that the masses should have these imperfect advantages than none at all.

Qurre a little war is being waged by some of our United States contenporaries over the vexed spellingbook question. The radical reformers condemn, as behind the age, every form of the spelling-book which requires children to spell "words from columns, words which are out of their connections, and which mean nothing to the speller." They contend that the art of spelling is to be learned from the reading-books, where the meanings of words are indicated by their connection and use. This is going to the extreme. We have no doubt that the ordinary pupil learns both the forms and the meanngs of words
mainly from reading. The philosophical teacher will make a note of this fact, and so conduct his class exercises as to cultivate the habit of observation in this direction. Spelling is learned chiefly by the cye, and the ease with which some pupils learn to spell is, no doubt, mainly attributable to their keen perceptive faculties, using that term in its literal rather than figurative sense. But these faculties can be trained and sharpened, and the series of exercises which compels a pupil to observe closely both the forms and meanings of words in the printed page is the most valuable lesson in both reading and spelling.

If it were true, as some of the iconoclasts contend, that the ordinary reading of the pupil will cover the vocabulary which he will need to use in after life, we should join them in crying "Away with the spelling-book in every form." But is this true? Far from it. It will be admitted that in order to be an average English scholar, one must know how to spell the whole vocabulary in common use in books, letters, and speech. Now it is well known that every writer has his own peculiar vocabulary, ind that the vocabulary of even the most versatile master of the language includes but a small part of the words in actual use. He:ce it follows that the pupil whose knowledge of words is confined to the range of his reading-books must ${ }^{\text {b }}$ fall far short of having a knowledge of the language. Moreover, each writer is likely to use a number of words which can scarcely be said to be in common use, and reason would surgest that the time of the average pupil would be much more profitably employed in acquainting himself with a well chosen list of words in common use, than in fixing in memory the uncommon few which may appear in the pages of a few individual writers.

Bur how about the columns? We are strongly disposed to draw a line here. We confess to a horror of the long, dry, lists of words in columns. dissociated from all connection with other words, which appear in the ordinary spelling-books. We can think of few drearier tasks than conning by rote such lists. And it is as unintellectual as dreary; no mental power, save memory, is necessarily called into play. Instruction in spelling is as capable of being reduced to a science as any other pedagogical work The model speller is the book which combines in sentences and paragraphs, either borrowed from a great variety of authors or constructed for the purpose, the whole vocabulary of English words in common use by good speakers and writers -all those words, we mean, which present any orthographical difficulty. Nor should such a book be put into a pupil's hands to be pored over and have its contents painfully memorized. As before said, the main thing is to cultivate the power and habit of observation. In order to do this let the pupilbe asked to read over the paragraph or the page carefully once or twice, and then let him be asked toreproduce it, sometimes from memory, sometimes from dictation. The child of average ability will snon learn to detect by his eye anything wrong or unusual in the spelling of a word. When the habit is formed it will be carred with him in all his reading and writing-and every pupil should be required to do much of the latter-and he will
be on the only high road which leads to correct spelling and a correct use of language.

Whine we are on the subject of spelling, another point should be noted. As most of us know by painful experience, there is a formidable army of words in the language which are identical or similar in sound, but different in spelling. These are not generally words "of learned length and thundering sound," but little, unobtrusive words, which are constantly appearing and which every one is expected to use correctly. It may possibly be advantageous to have these arranged in lists for oral practice, though we doubt it. Our observation has been that, in three cases out of four, the child who has learned these lists to perfection, and can gallop from end to end of a column orally, without a mistake, will misapply half the troublesome words in his letters or composition exercises. Nor have we much faith in those sentences artfully constructed to bring the words of like sound but varying meaning into juxtaposition. The pupil may learn to apply them infallibly in sucn sentences, but fail ignominivusly when he needs to use one of the words apart from that to which it is thus related. It is only by diligent practice in the writing of exercises such as above indicated, in which such words recur frequently in various uses and connections, that the victory can be assured.

One other hint and we dismiss the speling-book. Every teacher will have noticed that there are certain words not necessarily included in the classes above described, which the average boy or girl habitually, perversely, almost infallibly mis-speils. The fact is a suggestive one for the advocate of spelling-reform, but let that pass. It is a fact none the less, and one not always easy to account for. One is examining, for instance, a set of answers furnished to examinatio: questions. A certain word necessarily appears in each of th. papers. It seems no harder thon either of a hundred other words which all or nearly all spell correctly. Yet for some occult reason more than half the writers mis-spell this particular word. Every teacher, by a little careful attention in looking over the various exercises handed in by his pupils, can make a list of such words. We have found it a good plan to write such upon the blackboard, in conspicuous letters. Not more than three or four, perhaps better nut more than one or two, should be exhbited at once. It will be unnecessary to call particular attention to them; that will be surely given. Leave them standing for two or three days, or a week, and the probabilities are that those words, at least, will be correct in all future exercises.

## WRITTEN EXAMINATIONS.

"Mankind," says Arthur Helps, in one of his "Hints for Essays," "is always in extremes." This is certainly the case with teachers, or at least with some classes of teachers. The vagaties that have been propounded within the last ten years in the shape of cducational theories would make some interesting volumes for the study of the Evolution of Pedagogy by educators a hundred years hence. A curious collection might already be made, if one could but collate what has been said and
written on the one subject of Written Examiuations within the period named.

That the written examination has beep grossly abused, and has in many cases been made an instrument of torture for both pupil and teacher, is beyond question. That within its proper sjinere it is, and must always remain, one of the most effective educational agencies, is, we believe, equally trae and scarcely less demonstrable. And yet, strange to say, an educational writer and practical teacher, Anna C. Brackett, can find it in her brain to write as follows in the American Journal of Education, and "stranger still, the editor of that Journal apparentiy approves such hasty generalizations. Referring to the child. who wrote in reply to "Describe the position of the liver," "The liver is situated south of the stomach and a little to the right," Miss Brackett says that she is quite positive that it was the answer of an imaginative girl and not of a boy; and she thinks she should like her for a pupil.
She then proceeds:-"If she were my pupil, however, she would never have a written examination to pass, for we have long ago abolished them, as not only a snare and a delusion, but also as a grinding up of the working power of the teacher, which seems to me far more profitably employed in class work. My teachers can give their whole attention to their recitations, as they do not bave to consider how to express the mindgrowth of the pupil by an arithmetical figure, and they do not know what it is to sit up late at night over a pile of examination papers, consequently they come in every morning fresh, and ready to arouse, guide, and lead the minds of their girls. The girls are relieveri from all the nervous tension inseparable from set examinaiions, and their minds are bent only on the matter of the lesson, and not on the possible raarks which they may receive for it."
The writer defines the object of an examination as follows: "If an examination is to test anything, it is to test the real knowledge of the pupil of the real facts of Mathematics, Natural Science, Histery, etc. I am not aware that any teacher has the power of altering these," and proceeds after a little to dispose of the matter in this summary fashion:
"I most emphatically agree with Prof. Woodward in saying that no entire stranger can properly examine a class. The ways of looking at a subject are legion, and a class who really do know what they have been studying can easily be made to appear ridiculously ignorant by the clumsy way in which a question is put by an inexperienced teacher, or even by an experienced teacher who has been in the habit of looking at the subject from a different point of view.
"Now I wish to posit one other statement, and that is that it is a great waste of time for a teacher to give her own class a written examination. Does not every teacher know how much her class knows by their daily recitations? She examines them crally every day, and that gives her the best possible chance to fi.d out what they know. What a ridiculous farce it is to see a teacher, who has examined a class every day for six months, sit down and prepare a set of written questions to find out what they know!
"But, thirdly-for I think there is no 'excluded middle' in the case-if it is useless for a stranger to examine the class, and useless for its own teacher to examine it, what is gained by a written examination? Will somebody tell me?"
There is a good deal of force in what is said of the tendency of written examinations to grind up the working power of the teacher. This, however, by no means settles the question of the educational value of the examinations, unless we take with
it as an axiom what t.he writer asserts as $0: 1$ opinion, that the teacher's time would be " much mure profitably employed in class work." Thit is beggung the question. Another mught per contra say, "Your teachers, it seems to me highly probable, do altogether too much of what is called c,lass-room work. The girls would make more real progress and acquire more strength if left much more to their own resources." If within certain limits answering questions with the pen is a better mental exercise than answering them with the lips, then the teacher will du better wurk by giving less time to the latter in urder to give more to the fommer.

We should be disposed, too, to dispute the position that the best or sole use of an exammation is to test the puphi's reai knowledge of any set of facts. There are other things that it is at least of equal importance to have tested, e.s., the pupil's power of clear thinking, precise expresimin, orderly arrangement of ideas, etc.

But even as a test of a pupil's real knowledge, we fancy the examination is tot without use. In fact we think the experience of that teacher will he singular who has nut often fuurd himself compelled, on examination of a batch of papers, to modify very materially and in both directions, his preconceived opinions as to the acyurrements of certam pupils. The written examination affords a means of applying a more exact test than can possibly be had in any series of oral examinations, especially of largc classes.

The statement that no entire stranger can properly evamine a class suggests one of the strungest arguments in favor of such examinations. It directs attention to the well-known fact that every teacher has his pocular modes of putting things, and is pretty sure to have a more or less one-sided and limited range of vision. Very often the examination by a stranger is very serviceable to buth teacher and puphls, as showing that there are other sides to questions, and other points of view from which they may be louked at. No one can be said to have mastered a subject till it has been studied from different points of view and on all sides.

This suggests further that the highest value of the written examination is not in its use as a test of knowledge, or of any. thing else, but as a class-exerc It compels precision of thought and of expression; it enabues each pupil to find out for himself, as well as exhibit to others, the extent and accuracy not only of his knowledge of facts, but what is of vastly greater importance, of his thinking in regard to the subject in its various relations. It is of especial value to the many pupils who are timid and less ready in speech than their companiuns. Bacon's well-worn aphorism, "Writung makes an exact man," apples with full force to boys and girls in school.

The summing up of the whole matter is: Do not make a fetish of the written examination; do not weary yourself and run the risk of doing irjustice to your pupils by attempung the impossible task of giving to every answer its exact percentage of relative value, but, on the other hand, do not fail to put the writen examination to its legitimate use as one of the best possible classs-room exercises for the pupil, as well as an invalua le add to the teacher in discoverng the weak points both in his own and in his pupil's work.

## Spccial.

## discipline as a factor in the work of the SCHCJL-ROOM.

hy dr. J. . . wickeasham.
Read lefore the Pennsylvania Teachers' Association.

## (Concludel.)

But to what extent can a discipline of consequences be applied in tho school-roon? Is it possible at all in the little world called a school to lumk together as causo and effect, punnshment and uffence as is done in the great universe in which we live? The answer is best givon by examples. For all injuries to the tichool property, the nutural punshiment is ats repar. When a boy saas replaced the giass broken $m$ a window, removed the cuts or stann frum a defaced desk, repaired tho palngss knocked off from the yard fonce, ho has done about all ciat should be required of him. A pupil who has displaced the school furratesas or cluttorod the school-room floor,
has padd the propor peualt? when he has restored everything to its has padd the propor penalt ; when he has restored everything to its former condition. A pural who plays on his way to school, may bo demed the privilege of playing at recess or noon-time. One who chles away has tme, anc tharefors does suot know his lessons, may be wnde co work while his sohoolnates are at play in order to loann ther. Une who distures his schrol-follows that sit near bim, nasy bo assigned a geat by hi:nseif. ©ne who is quarrolsome, w, rannical, or selfish on tho playground, may be detained in the school-room at play-time or given a necess by himself. The habit of using profane or vulgar languago will bo soun broken up, if tho teacher require any one who mdulges in it to reme:a apart from his cchool-follows, lest his uxample contaminato them. He can say to mne who has erred in his wiy: "You have used bad language and must deman in the school-riom here with me while the other children play, for, of course, I cainot suffor innocent boyss and girls to hear such words. I am sorry, but it cannot be holped." In the case of open disobedience to the ieacher or incorrigibly bad conduct, it may bo proper to resort to torce, or to dismassal from schooll Theso examples do not covor all cases of school discipline, nór does what has been sadd exhaust the treatment that may be proper in any one of those mentioned ; but as a whole they will serve to exemplfy a kind of school discipline mfintely superiur to that in use in hundr.ds of thousands of schools. It is rare indeed that a judicious administration of such a system will not secure order in a school, and what is moro importaut, healthy moral growth among the pupils.
The advantages of a discipline of consequences over a system which involves arbitrary pumsinments such as whippiugs, tasks, and bodily tortures, are beyond calculation. It is the rule of law in contrast with a rule of passion, caprico or blind volition. Such a discipino enables the teachei' to renove in great measure his personality from his admmmstration. Instead of a monarch gurerning accordung to his own will, he becomes a judge passing sentence according to law. Ho discarde all personal feeling in punishing wrong-doers, but as the head of the school, simply seos to it that those who volate the law shall meur the natural consequences of their acts. The disecpline of force often leaves behind it a feeling af resentment. Sume of us who were brought up under this old regime still feel the sting of the mjustice done us; and it would not be difficult to awaken in our bosoms even now the spirit of revenge we once entertained towards mastors who in their way were as arbitrary in their government and as tyrannical as Nero or Cillgula. A discipline that makes the government of the school mppersonal could not be attended by any such bad results. A discrpline of consequences in sclool prepares tho way for a discipline of consequences in life. When a chld reaches tho age of responsibilty he finds himself hedged about by a complicated system of lawa. Order must be preserved in society, the state must be governed, and to secure theso ends laws must be enacted. To tho violation of these laws are affixed penalties designed to be just and to grow maturally out of the offences. Among these penalties are restitution of property, fines, imprisonment, death. Tho whole system of jurisprudence is, as far as human wridom can accomplish it, a disciplme of consequences. The state ostabliahes and supperts the school, and in return the school should train up good citizons. Its discipline therefore should be in accord with that of the stata.
God rules the unverse, and as far as we can see Ho rules by laws to which are attached as sanctions rowards and punishments. It is
much to bo a good citizen living in harmony with tho laws of ono's country; it is infinitoly moro to bea man living in harmony with the laws God Himself has stamped upon the oreation: The school like tho fanily should proparo for both, and a great step in this diroction is takon whon children aro accustomod to a kind, considerate, bui :igild discipline of consequences.
4. The discipli :oj conscience. From tho discipline of consequonces sonno steps highor bring us to the discipline of conscience. A school may bo kopt in ordor and unado to work by a discipline of forco; the same result with infinitely more satisfaction may bo accomplished by management, a discipline of tact; not less otiectivo in the samo way ond much more fruitful in moral results is a discipline of consequences wisely administered; but none of these methods of governing and training the young touch directly tho noral nature, or go far tnwards promoting mural growth. A child may be forced to do right, may be managed into doing right or do right in viem of the cunsequences of wrong-duing, and still tho fountrins of his moral nature from which issueall thataftectshis higher life, remain uncleansed, unsweetened, a stagnant pool ready tosicken and destroy with its poisonous waters. Conscience is the light God has placed in every human breast to enablo us to know right from wrong - $\pi$ monitor that gives us peace and joy when we have done our duty, and fills us with sorrow and remorse when we have cone short of its requirements. Or, in the language of another, "Of the infinite counsels of the Eiernal was conscience begotten. The law of conscience'founded on the Doity is immutable, and like God himself, eternal. What is right today ever was and ever will be right ; and what is wrong to day eier was and ever wil be wron?." But the gift as it cones from the Dirine hand is only a germ that requires quickening, culture, enlightenment; and the world has no tasks so delicate and difficult as that of directing its growth. All other education is introductory and may bo carried on with comparatively moderate skill-this requires the hand of a master. Rightly conducted at home, in the school, by the church and the state, and the land would be freed from misery and crime, and the lost image of his Maker, after which he was created, would be restored to man.
The discipline of the conscience is the culmination, the fruitage of all kinds of gctiool discipline. Indeed, it is the ultimate end of the school itseif and tho sohool life. The boy who recoives punishment in school must be made better by it, or the punishmont is misapplied if nut immoral. The mere suppressiun of the bad through fear should have as an end no place in school government. The teacher who studies to remove tenptation to wrong-doing from the school-room, to win his pupils to right ways by nice nanagement, to make the whole environment of the schuol as favorable as possible to the purpose of education, must keep in viow as the crowning object oi his work the awakening and strengthening of the conscience. So, too, the great lessons to be loarned from a discipline of rowards and punishments, the discipline of consequences, is one that concerns the eternal principles of right and wrong. A reward in school as in nat're should be the sign and seal and measure of right-doing, and in like manner a punishment should be the sign and seal and measure of wrong-doing. The effect of the whole should be to lift up to a highor plane of life. The centre and soul of the work of every properly conducted school is the discip. line of conscience. This is the pole to which every needle should point-this the El Dorado towards which all efforts and all hopes should bo di seted. The teacher who knows how to touch and quicken the cons tience of the young is a master of the educational art, for in this is involved all else in the line of his profession.
The teacher who would make conscience the guiding principle of school work must enthrune it as the sole arbiter and judge of all conduct. The straight line that runs between right and wrong must be clearly marked, and he who loses sight of it must be made to feel the rebuke that comes from a voice within his own bosom. As educators of the young, we err profoundly in not appealing more constantly, but always reverently, to that inner light which was given by God Himself to every human being wherewith to direct his life. We throw overboard our compass and expect to find our way. We break the rudder of our ship and vainly think we can continue our voyage in safety. We refuse to recognize God's fingerbourd in the soul or shut our eyos to its durections, and thereby hecome blind leaders of the bliud. We havo much to do with the intellects of the children committed to our charge; we nake some attempts to direct their feelings ; but unable to touch the conscience with our unskulful mothode, or wholly ignoring this deeply hidden but most important element of our nature, we are apt to leave them helpless to resist the temptations that besot their pathway, and fill
tho world with men and women, learnsd it may bo, but without that elear sense of duty which guards the soul from danger, and is necessary to make lifo truly successful.
That a child may bo trained to love virtue and hate vice, no one acquainted with child-nature can doubt. This kind of twining, indeed, is the great object of the school. The school is the agent ho State uses to make good citizons. But all moral training is mechanical-mere shallow formalism-unless based upon or springing out oi an enlightened conscience.
Tha discipline of conscience, conscience-culture, is the most dificult part of the teacher's art. To conduct the procese wisely requires the most profound knowledge of human nature and the rarest skill in using it for the purpose. Whore hundreds succeed in other departments of education, only one succeeds in this; for bo ii well understood, no clumsy hand can touch for good the conaciance of a child. It drama back instinctively within itiouir at the appruach of the ungentle, the unsympathetic, or the impure. Almiost anybody may teach a child how to read, how to write, how to keep accounts; but it requires skill of a much higher order to train him morally in the way he should go ; and such training is eimpty impussible to the rude, the selfish, or immoral. The conscience is the centre of the whole moral life, deeply seated, carefully guarded, highly sonsitive, shrink ing amay at the touch of the profano, the very holy of holies of the soul; and none but a divinely annointed High Priest can enter within its precincts or minister at its altars. An appeal to the conscience of the child must be made through the conscience of the teacher. This is the only language which it understands, the only voice to which it will respons.
Moral prec ?pts have some place in the discipline of the conscience, but only a sulurdinate ono. They may not reach their mark. They may lie cold in the intellect without moving the feelings or taking deep root in the heart. It is oren quite possible for a complete system of ethics, like a complete system of mathematics, to exist as a cont. nt of the understanding and the reason, and the conscience remain a Sahara, dry and fruitless. It is examples of virtuous conduct, living acts of right and wrong, that touch the conscience and quicken its life. Nothing stiss the moral nature of the young like the story of men who have upheld the truth, defended the weak, relieved misery and distress, led lives of integrity amid temptation, sacruiced themselves fu: their country or the common goud, suffered death rather than dishonor, or become martyrs to the cause of truth. Let our children go with Florence Nightingale as she ministers to the sick and wounded soldiers ; follow John Howard on his errands to dismal dungeons that ho may bring a ray of light to the darkened souls of hardened criminals ; listen to the brave words of "Luther as he faces death before the Imperial Diet at Worns, "Here I stand, I cannot do otherwise, God help me;" or hear the Revulutionary patriut, Joseph Reed, spurn with indignation the proffered bribe-" Poor as I am, Great Britain has not money enough to buy me,"-and their hearts will begin to feel a thrill of moral heroism, and resolves will be made to act a manly, notie part in life. Eiography and history may be so taught as to leep the hearts of the learners evor "urned upward, and the story of the Man of Sorrows speaks as nothing else can to the conscience of the whole world.
The statement must now be made more emphatic that none but a conscientious teacher can administer in a school-room a discipline of conscience. As well night the dead undertake to arouse the dead. No pretense will answer, words will not deceive, hypocrisy will soon be detected; a teacher must love the right and hate the wrong, muist have the courago to do right and avoid doing wrong, if he expects to make any ;rogress in the moral training of children. No degree of scholarshir, no skill in teaching, no tact in management, will suffice to so perfect the character of a child by quickening his sense of right and wrong, that it will permeate and control his life. Fcr this the teacher needs intrinsic worth, pure as gold. There is a shallow morality, a morality of custom, a morality of form, that may come from a source less pure; but this is not the morality of which we speak, a morality that does right because it is ripht, because it is in accordance with God's will and Word and the voice Ho has implanted in our souls.
The teacher's example, his daily walk and conversation, has a powerful influenco upon the young of whom he has the care. Wo all grow like our ideals. The ideal of a child is the teacher he loves. On his soul is stamped the teacher's image, and the impression deepens. day by day. Silently, unconsciously to either party, the teacher's life settles down upon the child's life and moulds it in its own likeness. Without a spoken yord, the exam-
ple of the true teache is a continuous sermon sinking into tho young hearts about him and working marvolous rosults in forming character and shaping life. The great teachors of the world havo not been its famous scholars, but those who by example, by word and deed, were able to influence for good the young of whom they had clarge-those at whoeo magic touch all that is best in human nature is evolved and made ready to servo mankind and to hunor fod. Whoi rare men wore Sucrates, Comennis, Pestaluazi, Frubel ! Ur Arnold has dene far inore for England than Wollington ; Franco could better afford to blot unt tho histury of Napuleon than tu loso sight of the work of Fenelon; Gormany uwes its greatness more to Stein and his schools than Bismark and his wars and intrigues; and here at home Borace Mann, the schoml master, has left an influence that will long oullast that of Daniel Webster, the statesman.

No excuse need be offiered for dwelling at this length upon the character and results of the discipline of conscience as applied in the school-room. The times demand better moral training. Our schools have improved in order and in methods of teaching; but it is a question whether the great art of forming character in school has advanced to day much beyond the point attained in years long by-gone. Is there not danger that in working of our huge school systems and our vast school machinery, wo are overlooking that individual training which alone can develop the moral nature? Grades and classes may be advantageous for intellectual instruction, but do they not crush the heart with forms rather than quicken it with life? Is not the individuality of the conscience so marked, its structure so delicate, that its tender chords can be struck only by the fingers of love in the quiet communion of teacher and pupil? But whatever the cause of the neglest, the times demand moro effective moral training in ou schools.
Conscienco is sadly wanting in these days in the $r$ rts of trade, in store and shop and office. 'oo few of our mechan. :s when left to themselves do an honest job or a fair price. Elemen ; of shoddy are apt to be found in the clothe s we wear, the houses wo build, the furniture we use to make ourselves comfortable. Tho salesmen in our mercantile establishnents are sometimes tempted and somotimes instructed to misrepresent the goods they handle. Sugars, teas, coffees, spices, are seldom exactly what une pays for. Wints and drugs are systematically adulterated, and deception grows rich by the manufacture and sale of spurious jowelry and articles made to counterfeit gold and silver. The man who is your professing Christian brother and worships with you at church on Sunday, on Monday morning will cheat yuti in his store, shop ur uflice, without the twinge of a conscience that has grown callous under what ie deems the necessitics of business. Neighbors try to outwit one another in buying and selling, and sharp practice in making a bargain has come to be reckoned a merit, if not a virtue. Even the Church seems to forget that Sunday morality will not answer for all the week, and that no one can be a tiue Christian who is not hunest at all times, in every thought, and word and deed.
Then how common has become the disregard of public trusts. Every day we hear of frauds, embeydements, and defalcations. Saving funds are robbed by their ofticers, banks are defrauded by their cashiers and presidents, even the monoy of widcws and orphans is embezzled by those into whose hands trusting friends have placed it for safe keeping. Every penitentiary in the land contains numerous swindlers and defaulters, and if all who have escaped to Canada were brought back the penitentiaries would hardly hold inem. The failure of a firm like that of Grant and Ward, in New York, reveals a degzee of iniquity that is hardly human-almost devilish. What a consummate villain a man must be to sit down and coolly plan the robbery of trusting friends ! Corporations, big and litule, all over the land, set traps to entice the money of the unwary, and when obtained, use it to fill the pockets of the few who have planned them for that purpose. If the inside history of the frauds practiced in constructing some of our railroads, the water issued as stock, the unearned dividends declared for purposes of deception, the modes by which the management and their favorites grow rich whilo those who have in good faith invested their money in what they deemed an honest enterprise see it dissolvo in worthless stocks or dishonored bonds, it would be enough to make one conclude that hunur and honesty had departed from among men.
But nowhere do deception, falsehood, and fraud flourish so luxuriantly as in tho duman of politics. Men who in the urdmary affairs of lifo scorn to do a wrung, will in a political campangn !ia and cheat and defraud. Tho excuso is that the upposite party wall du it, and thoy must bo fuught with their own weapons. That must be a dull conscience that finds a reason for wrong-doing in the
wrong duing of another. Is a lio any less wicked on election day than at any other time? Is fraud made right becauso it secures tho election of a political frimd, or the triumph of the party to which we belong? It is lamentable to what extent our elections have become a mattor of money. At every general election votes are bought by tens of thousands. Not long since one of the shrewdest puliticians in this cuuntry, a man who had served as chairman of the central committee of has yarty $m$ une of the great States of the A merican Union, tuld mo that un an average there are ten votos in every election district throughout the cuuntry that can bo bought for less than threo dullars aprece. This awful fact would seem to indicate that our whole system of goverameni is rottening 1 , the cure. And yet these corruptible voters have attended our P'ublic Schools, have for the most part learned to read, write, and keep accounts in them; but how terribly neglected has been their moral mature, leaving dead in thoir bosoms all love of country, all sense of inonor, all the high obligations that grow out of a quickened conscience!

Thank God, there is a brighter side to the picture I have drainn. The dark side has been shown for the purpose of calling attontion $\therefore$ time to the great necessity of better moral education for the youth of the nation. The Republis is not yot lost. Free institutions have not yet been overthrown. The diseases that aflict our social and political condition have not yet reached the vital parts of the body politic. There is still hope for the suffering patient, and my mission here is to press you most earnestly to make the discip. line of your schools a discipline of conscience, in order that the rising generation may be so trained that they will become upright citizens and honest men. Remember that the chiof function of the American Public School is not to make scholars, but to send forth men and women who will be useful to society, and in whose hands the free mstitutions established by our fathers may be forever safe. Where all vote, where all participate in the affairs of the government, where every hand is on the helm of tho ship of State, universal education becomes imperative, with conscience as a central principle and a guiding light.
That accomplished Englishman, Archdeacon Farrar, in his "Farewell Thoughts to Amercans," spoken in Philadelphia a fow months ago, said : "Amorica is God's destined heritage, not for tyranny, not for privilege, not for aristooraoy, but for the schoolmaster." And I add, not for the schoolmaster as an accomplished scholar or as a skilful instructor, but as a man full-grown morally as well as intellectually, a man whose life is a concrete Gospel, a living system of ethics, whose eye can reach deep down into the hearts of the young commitied to his care; and if he should find, as ho will, at least a spark of good in the most unpromising chid in them, whose skill can fan it to a flame, and who can so teach that the conscience will come to be recognized as God's l:aghest and best gift to the children of men, and that to deaden it or to vinlato its dicuates is to commit eternal suicide.

## Examination lapers.

## DRAWING PAPERS.

BY W. BURNS, B.A.,
South Kensington Certifcated Art Teacher.
The questions given will be arranged thus: 33 and 34 Freehand Pencil; 35 and 36, Model-these can also be done by the student in Crayon, on coarse paper, to a larger scale; 37 and 38, Geomotrical Drawng; 39 and 40 , Perspective. In overy case it is requested that the whole working be shown, and the answers lined in mor heavily. As the object more especially to be attaned is to prepare students for examination work, the papers should be worked as would be done at an examination, except in the matter of using books of reference. The answers are to be promptly sont to Mr. William Burns, Box 326, Brampton, and if the fee ior examination of the answers for the course of ten papers ( $\$ 1.00$ ) is enclosed, the papers will be mailed, when corrected and noted, to the student's orn address, which should be annexed to cach set of answers.
33. Describe a syuaro of 3 in . wide. Draw its two diameters, and draw parallel liaes $\frac{1}{2}$ in. on each side of these lines. Describe tine cuncentric circles within the syuare, with radii of 1 in. and $\$$ in. Strengthen the picture su as to show the whole of the concentric
34. Givo pattoms of ivy and maplo leaves conventializedoxtromo length, 3 in .
35. Give model of book-shelves, with four shelves, standing to right of the spectator and bolow the line of sight.
36. Give view of ordinary ekg-cup, containing egg. Height, 2t in.
37. Given two circles of 1 dumetor, whose contres are $1 \frac{1}{2} \mathrm{~m}$. apart. Draw another circle of $; \mathrm{in}$. radus to touch them externally, and another of 2 m . radius to melude one and exclude th. other.
38. Given an ellipse whose axes are about 3 m . and 1 m . ; show how to find theso axes by a geometrical construction.
39. Give perspectivo viow of a cylinder whoso height is 3 in . and diameter of base 2 m ., and its position 2 m . to right $\mathrm{c} . \mathrm{d} 1 \mathrm{dm}$, withm the picture plane.
40. Give, at angle of $45^{\circ}$, perspective viow of a plinth, 4 in . square base and 1 in . high, with a cubical block standing upon it of 2 in. side and parallel to the sides of the plinth; 2 in. to left. Height of eye, 4 in . Distance of spectator, 10 in .
(To bo Continued).

## giducation mepartment, ontarto-min.

 SUMMER EXAMINATIONS, 1886.thimd class teachers.

## FRENCH GRAMMAR.

Examiner- J. E. Hodason, M.A.

1. (a) State the rules for the formation of the feminine of adjectives ending in :-e (mato), r, eil, eur (from pres. part.). (Value 2).
(b) Give the feminine singular of :-
gowverneur, discret, supirieur, caduc, las, traitre. (Value 8).
2. Mention three peculiarities in the French use of numerals. (Value 3).
3. Give the feminine, singular and plural, of the French possessive pronouns. (Value 4).
4. Writo a noto on, und illustrate the use of :-
dont, oui, lequel, cela.
(Value 4).
5. (a) Namo the primitive tenses. Why are they so called? (Value 3).
(b) How are the following tenses formed .-fut. abs., imperf. indic., imperf. subj.? (Value 3).
6. Write the third pers. sing. of the pret. def. indic., and of the pres. subj. of :-
revenir, reprendre, se lever, zoir, s'ouvrir, rouloir, sentir, faire, bâtir, apercevoir.
(Value 10).
7. Translate into French :-
(a) That victory procured him the staff of a marshal of France. (Value 3).
(b) The cannon beat down the walls of the fortress. (Value 3).
(c) She believes only what she sees, and that is littlo. (Value 3).
(d) Napoleon was born in Corsica on the 10th of August, 1760. (Valuc 3).
(e) Tako the first street to the right and walk to my house, which is a large white one. (Value 3).
(j) We never rise before seven o'clock in winter. (Value 3).
(g) Those arguments are conclusive: I see no reply to them. (Palue 3).
(h) He who chooses badly for himself, chooses badly for others. (Value 3).
(i) Aloxander lost some threo hundred men when he defeated Porus. (Value 3).
(j) It is the same sun that gives light to all the nations of the earth. (Value 3).
8. Translate into French :-

One evening he halted (s'arrèter) at a hermitage to ask for hospitality. The hermit welcomed him and shared with him his frugal meal. The wit and character of the young man pleased him. This meeting was the most fortunate thing that could have happened the young orphan. The good hermit took pleasure in teaching his pupil how to read, and the latter mado such rapid progress that he was soon as learned as his master; that is to say that ho couid read fairly and write a little coarse-hand (en gros). (Vulue 88).

## WRITING.

## 1. Examiner-J. Dearness.

$$
\text { Value } 40 \text { marks-10 for each number. }
$$

1. Copy : When the teacher looks at Writing from theso points of view (the mental facultics exercised and the incidental effect on the formation of intellectual charactor), he sees that it may be a training in accuracy of oye, steadiness and floxibility of hand in obedience and in cleanliness, and that evory time a scholar suceives a writing lesson his habits are either impreved or deteriorated in these respects. -J. G. Fitch.
2. Cupy the following table; draw the lines freehand:

| Province. | Capital. | Poi. of Prowince. |
| :---: | :---: | :---: |
| Britisl Columbia. | Victoria | Whites.... 23,798 |
| Manitoba. | Wimnipeg | " . . . 6 ¢ 5 ,954 |
| Ontario | Toronto. | II . . . . 1,923,228 |
| Quebec. | Quebec.. | " . . . . 1,390, 027 |
| New Brunswick | Fredericton. | " .... 321,233 |
| Nova Scotia. | Halifax | 440,572 |
| Prince Edward Island.. | Cha | " ${ }^{\prime \prime}$. ${ }^{\text {c. }}$ 108,801 |
| Northwest Territories. | Regiat | $\left\{\begin{array}{lr}\text { "1 } \\ \text { Indiaus. . . } & \text { 6,000 } \\ 50,000\end{array}\right.$ |

3. No. 79. Parkiili, Ont., 2nd July, 1880.

Exchange for $\mathbf{x}^{\prime} 59$ 10s. Od.
Three days after sight of this First of Exchange (second and third of same tenor and date unpaid) pay to the order of Messrs. Glym d Co., Fifty-nine pounds ten shillings sterling, value received, and charge the same to the account of

Arbuckle Brothers.
Messhs. Wyld, Millicuamp \& Wxid,

> Edinburgh, Scotland.
4. Write : sce, oeumn, itdl, wxyz, figkfy, and the capitals from A to II inclusive ; join the small letters in each group.

## BOOK-KEEPING AND COMMERCIAL TRANSACTIONS.

## Examiner-Cornelius Donovan, M.A.

1. What are the advantages of Double Entry compared with Single Entry? How would you change Single Entry into Double Entry Books? (Value 10).

| 2. Trial Batance. | Dr. | Cr. |
| :---: | :---: | :---: |
| Stock | \$ 881,00' | \$500000 |
| Bills receivable | 150000 | 100000 |
| Cash | 529406 | 480000 |
| Merchandise (Amt. unsold, \$1200) | 350000 | 275950 |
| Bills payable. | 150000 | 175000 |
| John Mason. | 30000 | 17500 |
| Peter Smith. | 400000 | 150000 |
| Robert Pendergast |  | 384.00 |
| Charles Ryan. |  | 483,00 |
| Expense |  | 150 |

(a) Make out (from the foregoing) a statement of Lrosses and Gains.
(b) Make out (from the foregoing) a statement of Resources and Liabilities.
(c) Explain the terms: Stock, Bills Receivable, Expense. (Value 25).
3. Journalize :
(a) Bought a quantity of Broadeloth in enmpany with John Smith, $\$ 2 \overline{0}$; paid cash for my half, $\$ 125$.
(b) Commenced business with Cash, $\$ 1000$; Notes against sundry persons, $\$$ soo.
(c) Thomas Jones has made a draft on me at 30 days, which I have accepted, for $\$ 140$. (Value 20).
4. Post the entries in No. 3. (Value 20).
$\overline{\mathbf{3}}$. What is a Bill of Exchange? What are its chief legal requisites? (Value 10).
C. Name and describe the books that aro admitted as evidence in Courts of Justice, and state the facts that must be proved to entitle a person's books to be received in evidence. (Value 15).

## 130TANY.

## Exemincr-J. C. Glasiras:

1. From what dues the root of an exogenous plant originate? What aro the chicf functions of roots? llow may roots be distinguished from underground stems? (Valuc 12).
2. From what do stems originate? Compare, in appearance, transverse sections of the stem of an chm and of a stalk of maize? How do these stems ditfer m their modes of growth? (Value 12).
3. What are the functions of foliage-leaves? Describe briefly the general structure and appearance of the leaf of (ci) the Sugar Niaple (Acer stecharinum) ; (b) the Indian Turnip (Aresema triphyllum). (Value 12)
4. Niame the parts of a complete Hower and briefly describe the chief moditications due to cohesion, adhesion, and suppression of parts. (Name illustrative examples of each modincation you describe). (Value 20).
$\overline{\mathbf{j}}$. Contrast a strawbery, a raspbery, and an apple, and compare a goosebery, a lemon, and a melon. (Vaine 24).
(i. What are the general characters of the Crucfere, the Leguminosat, the Liliacese and the Graminete? (Falue 20)

## 执atical.

## HINTS IN ORTHORSPY.

Why-hwr, not wr.
Communast-com mu-mst.
Commenism-com'mu-nism.
Cayeme--kin-en', not ki-an'.
Gallous-gal'lus, not galloz.
Bouquct-boo-ka', not bū-ka'.
Etiquette-et-e-ket', not et'e-ket.
Benzine-ben'zlne, not ben-\%ene'.
Finance- ir nance', not fr'mance.
Miseum-mu-ze'um, not mu'ze-um.
Bitumen-bi-tu'men, not bit'u-men.
Despervido-des-pe-riàdo, not ra'do.
Apperatus-ap-pa-rat tus, hut patus.
Aconstics-a-ko n'stics, not koo'stics.
Matutinal-mat'u-ti-nal, not tu'ti-mal.
Acclimute-ac-climate, not ac'cl-mate.
Gla holus-gla-dioolus, not gla-di-ülus.
Coudjutor-co-ad-ju'tor, not co-ad'ju-tor.
Condolence-con-do'lence, not con'do-lence.
Aspirant-as-prrant rather than as' proant.
Addrcas (noun and verb)-ad-dress', not adidress.
Hud as liff, had better, haed best, had hide, hoed iss gomel, and howl rather, are sumetimes crittosed, but they are dumes whech have been in use from early times, and aro abundatly supported by the
 good writers.-Exchange.

## THE ATTRIBUTE IN GRAMMLAR.

## From the Eilucational Neics.

The construction in grammar called by modern grammarians the attribute constriction, or the attribute compilement, or the predicate adjective, predicate norn, etc., is one that often puzales the brain of the teacher as well as that of the student. The attribute is defined as that word, phrase, or clause which completes the predicate and refers to the subject.
The predicate of a sentence miay be a verb, as the "Corn 9 ows," which is called a complete predicate; or it may be an incomplete predicatos when it requires a noun, a pronour, an adjective, or a prarticiple to complete its meaning, as "Corn is yellow;" here the predicate is composed of the two parts, the copule and the attribute ; the neuter verb is unites the two ideas corn and yellow, and the word yellow expresses the quality which is attributed to the corn; hence we say the predicate of the senteace is is ycllow, of which is is the copula, and yellow the attribute; and in the analyais the two words must occupy the place of the complete predicate. In parsing, the copula is made to agree in number and person with the subject, and the attribute yellow is parsed as at enmmon descriptive adjective relating to the subject com.
Neuter verbs, intransitive verbs, and verbs in tho passive voice, are used as copulas; as,
(1) Tho boy was attentive at church.
(2) The boy became a matu.
(3) The boy was made president.
the following are examples of
adjectives usbid as atrminuths.
(a) The tencher felt bad because the class was not promoted.
(b) The moon looks calm and beautiful to-night.
(c) Ho feels bitter towards his opponent.
(d) The hunter arrived safi.
(c) The child lay quiet upon the floor.
(f) Stand firm in your opinion.
(g) The fruit tastes stceet.
the sume toords used celverbially.
(a) The boy behaved baflly in the class-room.
(b) The moon looks down calmly upon the battlo-field.
(c) She wopt bitterly at the disappointment.
(d) The invalid arrived sajely.
(c) The burglar entered the house quietly.
(f) Stand firmly upon both fect.
(g) The camary sang stceetly.

In (a 1) bad is adjective of condition; that is, it expresses the mental condition of the teacher.
In (a 2) badly is adverbial of manner.
In (b 1) looks is used in the sense of appears, The moon appectrs, or is, calm and beantiful.
$\ln (b 2)$, by the figure of Personification, the moon looks down calmly upon the battle-field, and culmly is adverbial of looks.
In (c l) Uutter is an adjective, and expresses the condition of his mind towards his opponent.

In (c 2) bitterly is an adverb of mamer.
In (d 1) sufe is an adjective, and has referonce to the bodily condition of the hunter upon arrival.

In (d2) safely is adverbial of the manner of conveyance. Tles invalid may have been in a very critical condition, and yot the manner of convoying him may have been perfectly safe and comfortable.
In (e 1) the child was quiet.
In (c 2 ) quietly is an adverb of manner.
In ( $f$ 1) tho ureaning is, Bu fitm or unchangeablo in your upinion.
In ( $f 2$ ) firmly has reference to rigidity of muscle.
In ( $g 1$ ) the fruit is sweet.
In (g2) stucelly is an adverb of manner.
It will be noticed that whenover you wish to express quality er condition the adjective must be employed, and the principle laid dewn on page 101 of Raub's Practical Grammar.

When ceer you can substitute any form of the verls to be or to become for the rerb in the sentence, the word folloving it is an adjective, covers every construction of the kind. It is perhaps as easy to remember that with ce, iss signifying action or mution the adeerb is required, unal with colbs signifying mere being or state the adjectire is employed.
The fullowing illustrates the use of the different parts of speech as attributes:

## NOUNS USED AS ATTRIHUTES.

1. He returned a friend who came a foc.
2. He turned out a worthless main.
3. Garfield died a martyr.
4. The burglar fell back a corpse.
$\overline{0}$. The eye is the usindow of the soul.
phonodes used as atthinutes.
5. This is $t$ of whom we spoke.
6. The book is his who bought it.
7. It is not he acho you thought it was.
8. I am sure it could not have been they.
9. Let him be who he may.
pabtichleg used as attributes.
10. The city lies slecping.
11. The boys came memina.
12. He went singing through the hall.
13. The kite was seen flying over the huises.
14. He kept praymg aloud.
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phepositional pmbases used as atthibutes.
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1. We have been m the habit of sending books.
2. His friend is in bad health.
3. Shall $I$ bo in time?
4. Wo know that he is in the right.
5. If you aro about to go, take with you peace and joy.

## infinitive lhibases used as atthinutes.

1. Our greatest ambition is to stcceed in our efforts.
2. Ho seems to be grateful.
3. Sinc is to go at a moment's notice.
4. Tho work is to be done at once.
5. To bo great is to be good.

CLAUSES USED AS ATTIIRUTES.

1. The greatest folly of the student is that he attempts to accom plish too much in a short time.
2. This is there they met before.
3. Hamlet's exclamation was, "What a piece of work is man !"
4. The latest theory is that the earth is a sphere.
б. The robellious boy's defiant romark, "I won't submit to your disciplinc."
Note. - The prepositional attribute phrase construction is one of tl:e must difticult, perhaps, for the student, hut in teaching it the teachor should use adverbial constructions at the samo time, so that the pupil may see the difference for himself; is,

He is in the room tolls where ho is, and is adverbial of place.
He is in good licalth tells the condition ho is in, and stands for the adjective healthy.

When it is dillicult to decide whether a propositional phraso is adjective or adverbial, the teacher may require the pupils to substitute a word for the phrase which will convey the same meaning, and if a correct word be eubstituted, it will generally decide the question in the mind of the pupil. For instance, in the sentence "He was in doubt about the solution," by substituting doubtful, which is an adjective, the meaning becomes clear, and the prepositional phrase is disposed of, just as the word doultful would bo if it were put in its place.
H. F. S.

## TEACH FIIPILS TO OBSERVE.

Young pupils may be trained to observe carefully the common things around them by having such problems as the following given them from time to time, with the regular arithmetic work. But one problem should be given at a time, and that at the season of the Gear when the animal may be secured and examined by the pupils. The teacher shoald do no "telling," but oncourage papils to examine for themselves:

## 1. How many wings have three bees?

2. How many wings have five flies?
3. How many wings have four butterflies?
4. How many wings have seven mosquitoes?

5 . How n any wings have two potato-bugs?
6. Tow many legs have six flies?
7. ¿ Jw many legs have three spidors?
8. Aow many legs have five bumble-bees?
9. How many legs have two craw-ishes?
10. How many legs have three turtles?
11. How many legs have four tleas i
12. How many legs have seven tomato-worms?
13. How many toes have three boys?
14. How many toes have two hogs ?
15. How many toes have nine horses?
16. How many toes have six hens?
17. How many toes have three dogs?
18. How many toes have five cats?
19. How many fingers havo four girls?
20. How many libs have two men?

I have used similat problems in different communities, and have ascertained that even old people, who havo been surrounded by these animals all their lives, do not know how many wings a bee or a fly has, or how many legs a buttertly or a spider has. Most people do not know whether thumbs are fingers or not. (Direct them to the dictionary).
C. M. Parker.

## GRADING COUNTRY SCHOOLS.

## How should a country school be graded? James R.

By a country school we suppose is meant the ordinary district school, consisting of but one room and employing but one teacher.
It was formerly, and may be still in sonse places, like resolving order out of chaos to attempt such a thing as grading a ecuntry school. The smartest boy had ciphered through his arithmetic, another had gone half through, another had skipped around and done
what he could, ono trok up book-keeping, another wanted algebra, and so on. But tho experimont need but be tried to show that very successful redults may be attained in grading. It will be necessary to havo about five grades in a so-called ungraded schoc!; the A grade, comprising the 5th reader, A arithmetic, A geography, A grammar, and such other studies as the teacher may seo fit to introduce; the $B$ grade, comprising the 4 th reador, $B$ arithmotic, $B$ geography, and 13 grammar; the $C$ grade, comprising 2nd and 3rd readers, C arithmetic, $O$ geography, and languago work, and so on down to the chart class. There will be crossing of grades to be sure, a great deal, at first, but by patient, persistent work, almost every child can becorne identified as belonging to some grade, and it will be his joy and pride to keep up with that grade, to take up any studies that tho othors may, and to pass ou ${ }^{+}$with them at tho close of the year. - N. Y. School Jourval.

## Educational flotes and flews.

Potrolea has built a now ward school on Eureka street. It cost $\$ 2,500$.

A fine now school building has been built in S. S. No. 16, Woodhouse, Norfolk.
$\therefore$.r. A. Bridge has resigned his position as head teacher in the Delhi Public School.
Mr. H. Forester has been ro-engaged as principal of the Springtield schools for 1887.
The Pembroke Public School has been closed owing to the prevalence of diptheria.
All the teachers in the Central School, Goderich, have been re-ongaged at their present salaries.
John Paton, who is teaching in Campbellton this year, has been engaged for the Largie school for 1887.

McLean \& Wilson, architects, have prepared plans for a new S $\$, 000$ schoolhouse, to be ereated at Pain Court.
Mr. D. Bentley hats been re-engaged as teacher, for 1887, at the Birnam School, Warwich, at an increased salary.
Mr. E. W. Bigg has been re-angaged as principal of the Parkhill High School at the same salary as bofore, $\$ 8 \overline{0} 0$.
G. B. Vatson, B.A., Ph.D., has been appointed Modern Language Master in tho Woodstock High School.

Mr. Colin Johnston has been engaged to teach for another year in S. S. No. $\overline{0}$, Ekfrid. Salary same as last year.

The present teachers of Napier School, Mr. W. H. Shrapnell and Niss E. Lightfoot, havo been re-engaged for 1887.
The trusteas of School Section No. 4, Adelaide, have engaged Mr. Roberts, of East Williams, as teacher for the ensuing year.

The Public School trustees have re-engaged F. M. Hicks as principal of Wycombe Suhool for 1887, at an increased salary.

Misses Ruth Dibb, Selena McWhorter, and Jennie Sinclair, have been added to the staff of Public School teachers at Petrolea.

Mr. J. F. Kennedy, principal of the Dundas schools, handed in his resignation as teacher and principal at the last meeting of the Board.
A. Nugent, B.A., ex-Mathematical Master of Woodstock H. S., is one of the managers of the International Commercial College in Ottawa.

Mr. Gilbert has been re-engaged as principal of the Parkhill Public School, with Miss Cluness, Miss McIeed, and Miss Shoults as assistants.
Miss Sutherland, formerly of Horning's Mills, has been engaged in the Shelburne Public School in the place of Miss Wright, who has resigned.

Mr. Joseph Martin, teacher, who has been seriously ill at his home in Aylmer for several weeks, has recovered and again taken charge of his school i. 2 Bayham.

Mr. J. G. Carruthers, priucipal of the DeCewsville Public School, has bee:1 appointed headmaster of the Cayuga Public School, in the place Jf Mr. J. A. Morphy, recently appointed jailer for Haldimand Ccunty.
The Plaindealer is advocating the establishment of a Model School at Midgetown. Well, if Ridgetown will undertake the task, Chatham School Board and the Chatham teaching staff will gladly
give way to them. There is neither protit nor pleasure comnected wilh its estabhishment here. -Chatham I'hanct.
Mr. J. E. Wetherell, M.A.. principal of Strathroy Cullegrate Instatute, has had his salary increased to $\$ 1,500$ per amum, m consideration of his now duties in connection wath the Traming Institute.
'The trustees of Plattsville I'ublic School, county of Oxford, have engaged Mr. John Robuson and Miss Maggie Cole for another year. Miss Mmaie Brown, teacher in the jumor department, has sent in her resignation.

Mr. J. F. Kemnedy, Public School headmaster at Dundas, has purchased the Dufform Adrertiser, Orameville, an $S$-page weehly published in the interests of the Reformers of Dufferm County and the Scott Act.
'The Public Schoul building in Oil Springs was totally destrojed by fire on Thursday last. It was a two-storey frame structure and burned like paper. It was no doubt the work of an incendiary.St. Thomes I'imes.

Mr. Angus Martyn, who has been primigal of Bath Public School for four years. has resigned that position to become assistant teacher in Newburgh High School. Mr. Martyn filled the same prosition during the years 1881 -2.

Miss Alexander, one of the Public Schoul teachers, Tilsonburg. has resigued her position, and whil sire up, teachngg at the end of the year. Miss C. Thompson, who is now teaching at Delmer, has been engaged to take Miss Alexander's place.

Petrolea School Board has decided to merease, after January 1st. the salaries of Thrd Class teachers from $\$ 240$ to $\$ 250$, and will reduce the salaries of teachers hohling Second Class Nurmal Schuol Professumal Certificates from $\leqslant 340$ to $\leqslant 272$.

In 1580, there were in the linited States, in round numbers, $10,000,000$ voters. Oi this number $2,000,000$, or $\frac{1}{5}$ of the whole number, were illiterate. One in every group of five could not write his name ; one in every six could not read his ballot.

Kansas school-teacher: "Where docs all our gram go to ?"
"Into the hopper."
"What hopper?"
"Grasshopper," triumphantly shouted a scholar.
The Minister of Education has promised to mise the Woolstock High School to the rank of a Collegiate Institute if, upon inspection by himself or deputy, it is found to meet all the requirements of the law, the change to date from the September opening this year.

The number of teaching days in the second half-year is 94 , not 95 , as stated in a distributed circular, The discrepancy in the latter arises from counting 22 teaching days in November, thereby not excludins Thanksgiring Day, which is a legal school holiday.
'The teachers of Perth met in conventim on Thursday and Fridas last in St. Mary's, and the meetings were a yreat success as well from the number of tenchers present as also from the exceedingly large number of town people who attended the different sessions. sit. Thomas Times.

The dexree of Bachelor of Music was conferred on Rev. W. Roberts, Miss H. E. Gregory, zud Miss E. S. Mellish, at Trinity College, Toronto, at the recent convocation. This is the first accasion on which a degree of music has been conferred by a Camadian university.

We can teach, in the enmmon schols sume clements of botang, zonilogy, mineralogy, plyyics, and clienistry, nut only whthout detricting from the throughness of the work dune in tenchang the ordinary brinches, but with manifest advantage to that work.Prof. W. E. Wikson.

A amall boy surprised his teacher at one of the grammar sehools, yesterday, by asking her how far a procession of the Presidents of the Guited States would rench, if they were placed in a row. On her expressing her ignurance, he calanly announced: "From Wishington to Cleveland." Spinisfichl licpublicam.

A scholar in a country school was asked: "How do you parse "Mary milked the cows The last noun was disposed of as follows: "Cow, a noun, femmme gender, third person, zand stands for Mary: " "Stands for Mary! How do you make that out $\ddagger$ " "Because," added the mtellyent pupl, "if the cow didn't stand for Mary, how could she milk her ?"

Friday afternoon the selimel teachers in tnen, wiih fers exceptions, attentied the second of the series of monthly meetings in the Central

School building, Mr. Smith occupying the chair. The time was devoted to a discussion of tho best methods of teaching. Such meetings should not fal to bo of great benefit, not only to the teachers, butalso to the educational interests of the town- leeterborough Eacominer.

Mr. M. S. Clark, M.A., of Strathroy Collegiato Institute, has been appointed principal of tho Georgetown High School, and Mr. E. Longman, of the Midioc Model Sehool, assistant. The appointments are, there is every reason to believe, excellent. Froma long personal acquaintance with Mr. Clark, including several jears of assuciation in teaching, as woll as from a kuowledge of the very superior educational advantages he has enjoyed and fathfully used, wo predict for him a highly successful career.
The following resolutions, ammgst others, were adopted at a recent mecting of the Sarnia Board of Education. They have the right ring:

1. That the High School teachers bo all engaged at their present salaries, with the exception of Mr. Evans, and that an addition of $\$ 50$ be made to his saliary, mahnici it $\$ 850$.
2. That all the Model and Public School teachers who are in a position to re-engage, be engaged at their present salaries, with the exception of Miss Patterson, Niss Brebner, and Miss Sitlington, and that $\$ 2 \bar{y}$ Lo added to cach of their salaries, as a recugamen of special attainments and success.
Bayham Teachers' Association met in the High School on Oct. 20th. Among those present were Inspector Atkin, W. W. Rutherford, of Aylmer High School, C. Sheldon and W. M. Parke, of Houghton. An interesting and instructive programme occupied the attention of the teachers during the day. The High School entertainment took place in the evening. Owing to the state of the weather the audicnce was not very large, but it was highly appreciated. The programme was well carried out. While all did well, it will not bo amiss to mention the brilliant performances of Miss Reilly, of Port Burwell, whose skill in manipulating the keys of a piano is something phenomenal. Niss F. C. Young and Miss Selena Taylor were presented with 'heir diplomas on the same evening by Inspector Atkin, who brielly :ddressed the audience and congratulated tho people of Viemna on the suceess and present. elliciency of the High School under its present staff of teachers.-Southern Cunntics Jourmah
The liev. Joseph Cook, who has recently been lecirring in Toronto, is responsible for the following squg of science:

Trilollite, Graptobite
Siautilus ile.
Scas urcre calentcous,
Occans werc Ury.
Oceans urere dry.
Hocene, miocene,
Hiocene, tun,
Iliocenc, tun,
Lias and trias,
Liag and trias,
And that is cnough.
O. sing asong of yhosphates.

Fibrinc in a lituc.
Four and twersy follicles
Whene than of time.
When the ghosphoresecnce
Eujolutedhrain,
Sujerstition ended,
Nan beran to reinn.
The Public Schonl teachers of Wentworth opened their semiannual mecting in Hamilton a week or two since Amo::g thonse present were: Mr. J. A. Ballard (I'resident), Inspector Smith, Mr. J. F. Kenmedy 〈Secretary, Messrs. MI. Sharp, A. J. Hewson, E. 13. Huwari, 1R. W. Vulluck et at The afternoon session was deruted to tho reading of papers. A. Kneeswater presenting ono on Entrance Arithmetic ; F. Lee one on the Tome Sol-fa System of Music; W. Campbell one on History, and J. Young one on Moral Culture Saturday morning's session was opened with a paper on l'rimary Arithmetic by Mr. S. 13. Sinclair, of Hamilton. Miss Jessic Robertson read an exeellent paper on Camada at the Indian and Colonial Exhibition, in which shegave a fine description of the Canadian exhibit. The fulluwing officers were clected: President, Mr. D. Bell ; Vicepresident, Mr. M. G. Marshall; Secretary; Mr. W. N. Sterenson ; Treasurer, Mr. J. F. Ballard. Mr. J. H. Smith gave a valuable address on the overcrowding of our schools. He strungy advocated the establishang of sclarols during the rinter months to the devotei to the study of agriculture and subjects pertaining thereto.

At a recent mecting of the Senate of Toronto University, Mr. Houston mvo notice that he would move at next meeting of session that English texts by authors prior to Chaucer, including solections
from the Anglo-Saxon, should form part of the honor class in the third and fourth years, eleo that a graduating department bo croated which shall include Latin and tho Romance languages, with such additional subjects as will make it a fair equivalent for tho present graduating departments of classics and modern languages respectively. The following motion by Mr. Houston was lost:- "Resolved, That wherover English is prescribed as part of the pass course in arts, it shall include the critical reading of prose texts for chetorical purposes." On motion of Dr. Oldright, seconded by President Wilson, a statute received its final reading which provides that undergraduates pursuing an honor courso who had failed in pass subjects, but have obtained honors, may be permitted to present themselves in September in those subjects in which they have failed, and, on passing in such subjecis, be allowed to proceed in honors in the following year; provided, that no such undergraduate shall be classed in honors in the year in which he shall have so failed.

The amual conversazione of the Canadian Institute was held in the Institute building in Toronto a week or two since, and proved a very pleasant and successful affair. The rooms wero brilliantly lighted, and objects of interest to naturalists were displayed on every hand. The lecture-room was deyoted to specimens in natural history, living and dead, the reptiles being among the most admired, and the birds and mammals gaining the next share of approval and admination. The reading-room contained the microscupes, with an unusually large and interesting collection of settings. The Institute hall contained a collection of Esquimaux skins brought from Ungava Bay. Among tho most interesting curiosities exhibited this year was a French cannon 200 years old, brought from Hudson Bay by Lieut. Gordon. In the course of an interesting address, the I'resident, Prof. W. H. Vandersmissen, reviowed the history of the Institute and showed the practical benefits which it had conferred upon the country in being more or less instrumental in bringing about the progress in scientific spirit which had found an outcome in the establishment of the observatory in Queen's Park, the signal service, and other scientific institutnins, of which the public are every day reaping the advantages. Ttie Institute, he pointed out, was an instrument by which the govermmental and ciric authorities were continually prompted to preserve tho historical and scientific fcatures of the country. There was now being prepared an Act to makio all prehiatoric monuments, such as the mounds on Rainy Kiver, public propery, and to make it a misdemeanor to dig in or disturb them.
The Syracuse School Bulletin gives an interesting account of tho success of Warden Brush's efforts to establish an evening school for the prisoners in Sing Sing. Hestarted the schuol in January, 1884, with Chase, of Brooklyu, for teacher, who was serving a term for bigamy. The Warden can now boast that no one is now discharged from tho prison who cannot read, write, and cost up ordinary accounts. The World says that, aside from the benefits the convicts derive, the school has been of incalculable bencfit to the prison officials. The restless spirits have been given something to cocupy their minds. Thero is less loud talk than formerly, and disturbances of all descriptions are infrequent. The worst class to deal with in an institution of that kind are the ignorant men who have fnothing to do to amuse themselves and aistract, everybody else in all manner of ways. Once having started on their lessons, they all take to them eagerly. Where the incentive to learn is lacking, they regard it as a means of killing time. But it has been notice. zble from the beginning that, no matter hor deprared a convict might be, there comes to all tho ambition to learn. No doubt this is fostered lyy the practice of having 30 or 40 together, including a fellow-convict somewhat advanced. This produces a spirit of rivalry, as no one, eren among peoplo of that class, cares to be thought too stupid to Iearn, or is content to be eclipsed by his companions. A Brorld reporter cisited the prison a few dags ago. There he saw 32 as desperate.looking convicts as could probably hare been picked from among the 1,513 who aro in the prison. They, were seated on rough benches at ono end of tho platiorm in the chapel and were poring over their books studiously. Thes fero not all of the same grade. One was just learning to read words of three letters after being gunected xith the class soren days, others were able to do a little better in first-reader lessons, whilo the remainder were divided into four sections for the second, third, fourth, and intermediate readers. An Italian who knew nothing but evil and crimo when he was sent to Sing-Sing last Septomber, and could onls speak his native language, but nut read it, read quite as well as his mates in tho Third Reader, and spoke English duently with only a slight accent. In tho book of overy scholar is a pen-
manship copy, and thoy practice this with pencil and slato in their cells and bring their work into the class for inspection. Besides this, there arp blackboard exercises in both penmanship and arithmetic. It speaks well for the discipline of the prison that the management dare trust 32 of their worst criminals in a remote part of the prison for an hour and a half. A guard is always near and vatching over them, and the approaches to the chapel are closely guarded, but nevertheless it would be regarded as a dangerous experiment for so many mon to meet together night after night. Still no harm has ever come of it. A system which contributes to the moral and intellectual elevation of a dangerous class of people, and creates in them a certain amount of self-relianco that they can go out into the world and make a living honestly, deserves some sort of recognition from the Siate. So far the only cost to the State has been less than $\$ 2 \overline{\text { on }}$ for bo. his and slates.

## Question grabuer.

Questions relation to matters of fact are answered by tho editor. All others are left, as a rule, for corfespondents.

QUESTIONS.
Can any ono obtain circular No. 19 (Education Department), which gives notes on subjects for second and third-class certificates for 1887 ?
(a). What books should be read in order to prepare the grammar, composition, and algebra required for first-class teachers examination, grade C?
(b). In what order are the rules in algebra supposed to be taken to get "to the end of Binomial Theorem" as stated in the Regulations?
(c). Where or how could I get copies of the papers set for the two last examinations for honor matri ulation, or for grade $\mathbf{C}$ teachers' certificates? W. M.

If a teacher should be engaged tho first six months of the year at a certain rato per annum, may that teacher claim pay for the summer vacation?
L. 0 .

As you mention in Joursial of November Ist that the police of Whitby nere about to be called upon to enforce the compulsory clauses of the School Act in the cascs of some children who are perpetual disturbers of the peace on the public sireets, I write to ask would you kindly state in your columns what is the law on this point, and how can such disturbances be stop̀ped; or in what way should the paronts bo hindered from allowing their children to be a public nuisance. Please answer through the Jourisin, and oblige,
I. D. Sternhig.

Please publish easy solutions for the following questions :- "
(a). Explain how you would tind all the divisors which a number has. Find those of 1800.
(b). Add together $\frac{12}{12}, \because$ and 7 , and find what is tho least fraction with denominator 1000 , which must be added in order that the sum may be greater than unity.

(d). A commission merchant receives 125 bbls. of flower from $A$, 150 bbls. from 13,225 bbls. from $C$; he finds on mspection that $A$ 's is 10 per cent. better than $B \prime s$, and $C \overline{j_{j}} \overline{1}$ per cent. better than A's; ho sells the whole lut at $\$ 7$ per barrel, and charges 4 per cent. commission. How much does he remt to cach?
(c). Tho product of four consecutive numbers is 73440 ; find tho numbers.

Ignomamus.

## ANSTERS.

7. Appls to the Secretary of tho Education Department.
W. M.-(n). Mason's Grammar and High School Algcbra, supplemented with McLellan's Hand-Buok of Algebra
(h). The order followed in the anthorized text-books, no doubt.
(c). Write to the Regisitar of Toronto University.
L. O. -Divide the amount of the searly salary loy the number of teaching days in the year ; multiply the quotient by the number of days of actual teaching during tho perind; the product will bo tho anount to which the teacher is entitled.

L D. Striniva. - By the provisions of the Public Schoul Act, the parent or gnirdian of every child at less than seden ur muro than thirtern years of :ge, is required to cause such child to attemd a Public or nther schonl for not less than whe !umdred days iat cuth school year, unless the child is under etiacient instruction in some other mannex, or prevented by sickiess from attenalmg. Buards of Trustecs are authorized to appoint oftivers to enforce the foregoing provision, and the Police Mayistrates in cittes and towns, and Justices of the leare in cillapes, ete., are empuwered to mvestigate and decide upon any complant made by 'rustees, or any person authorized by them, against any parent or guardian for falure to comply with the provistons of tho Aet 11 this respect. As to the other part of Mr. Sterling's question, it is, we suppose, matter of local concern. Any parent who permats has chaldren to bezome disturbers of the peace, or a public nussainee, may be proceeded arainst in due form of law. lucorrmbles maty be sent to reformatories, or otherwise punshed acesrimg to the provisions of public or municipal statutes, on complaint made to the police or other lowal magistrates.

## (Farrssyminnce.

Eilitur C'nsami Semom, Journar:
Sir,-In your last issue I noticed a commant on the atein of Mr. Bige, headmaster of Parkhill High School, in giving a slight punishment to a bey ieel, mging to the Public Schow. Yau are right ins styin that authority should not

 a private citi\%en, who, seeine a boy assandinas a little girl, justly pumshed him. If he were wrone legally, he was risht morilly, and to how that this opinion was hed hy our citions, I wisi to inform you that the Selood 13 ard offered to pay the fine, bat the Migh Sehoul pupils, having confidence in Mr. Jijeg's impartiality and justice, desired the homor and ahtaned it.

Yours respectfully:
W. F. Mar,

Mathematical Master, Parihhill Migh School.
[This, vi course, yute alters the wise. Wu tove the atcumat from some local paper. Thanks for the correction.-Eb. Schoob. Jourival.]

## Citctary Chit-C゙hat.

"Mark Twain's" profits of the Twain-Cable readinus last season are reported at $\$ 30,000$.

Renders of Mr. Vandersmissen's edition of Grimm's "Marchen" will be olad to see that Messrs. D. C. He.th. C. Cu. hine in prephata tion another work edited by the s.ant wsiter. - Ifauffs Marnici. Das Kalte IIcre.
W. 11. Yandersmissen, M.A., wi Cuiversity C.Mese, Turuntu, has edited, with Eughish motes, etio, Gramais Mrardien, the sciellouth including cight of the tales. The buyh is fur the ase of stadents it German, and has met wath the approsal of many teachers of that language throughout the States and Canada.

When Miss Inuisa May Ale, it is writing a lowh she writes four-
 Concord, goes to DBuston, hares atyact rown, shuts herscif ap and wats ior "an cast wad wi maparation, whila never fals." In a month or so the book is donc. She never copies, and seldom corrects.
The author of that jusenile classic ". Wlice in Wenderland," is about to publish, through Messrs. Macaullan, a book cutirels anfirent m design from anythum he has ever watten. It is to be called the game of logic, and will describe a new game which he hunself has ins ented, atal which premises to "combile instruction and amusement."
Sume quecr hiterary partaerships hawe beern furmed, but nune of less congeniality apparently than that of Mrs. Oliphant and Mr. Aldrich. The lady has in later years become so mystical, psychological, spiritual, aud Mr. Didrich now, as ever, s. witty sharp, pracheal, and mondern, that the fusiunt of characteristics will be a literary curnosty. Their commenstory to appear in Heat year's Alhunic will create especial meterest.-i'urrent.
Furest and Farm is the uame of a new cight-page paper, devoted especially to the interests of the Canadian sportsman-not "sport-
ing urm," as the editur is careful to oxplan. Tho now journal propuses to tell the true spurtsman "when to go, whore to $k$ on, and how to secure the greatest amome of sport "in a hanited period; . Aso "an amount ef valuablo uformation pertammes to the farm, not to bo found in any other publication." It is published every Saturday muzaing by Chas. Stark, $\mathbf{j}$ ) Church street, Toronto.

The frontispiece of the December St. Nicholur, "In Christmas Season, Long Ago," is a charmmg ropresentation of a scone of the olden time, illustrating a pleasant descriptive poem by Helen Gray Cone. "The Story of Prince Fairyfoot," by Frances Hodgson Burnett, commenced in this number, will be a great attraction durthe coming year. Among other sontributors are Frank'll. Stockton, J. 'T. Trowbridge, Alfred Breman, Theodore Davis, and other skilful purveyors to the tastes and wants of the hundreds of thousauds of young readers, to whom the monthly appearances of St. Nicholus make twelve red-letter days in each year's calondar.

## Eiterary grovicus.

Thanho:: A Romance. By Sir Walter Scutt, Bart. (Boston: Ginn \& C.mpini.!

Chis neat and attractive edition of this in mortal romance is the last which has come th hand of (inmst Company's admiatle series of "Classics for Cluldren." It contians foot antess and it ghessiry which, no donbt, containeverything mecessary for the cluchation of any obseure allusions and luent or antupated terms whela ofenr $m$ the text.

Las. Tmasanactes me is, Mer. By Vichor Huro. Adapted for use in

 ㅍ․ Ainte Eda ati : Buard, Irchad, ctc. Nicanytuns, Waterloo Place, Lumalon.)

The popular French classic is neatly lound and well printed. The Noses adse:te learnan: and care, and seem sufficently full for school purpoiss.

Dhanamists. By Panl If. Ifanas, Professor of Mathematies, Unavcrity of Colorado. (Bustun. Ganad Cumpany!
hat this, the only Anmerien thook on the subject, the theory is given with sublicient fulaiess for all stadents who desire to use determinants as instranemts of research, and to cunble them to reail the works of modern mathematicians, most of whom employ the determinant notation. Yrof. Hamas worh differn from that of Mour, especially in the first chapter, wheh
 having a chaptor min nplications, nua in prencuting the xpecinl forms in Gunection with the cases that gevoriso to them. It differs essentially from Scoti's, in which the theory is prisented with the help of Grassman's alteratac unite, and he dscus ions nre not clemanhry. Promepples and 1 ropositions are abmanaly; illustrated, and a plenty of well graded cxamples aro introduced.

1 Finst Gusm Wurna, with Exercises and Vocabularies. Fourth edition, revised.

La:ctarks on Gampk Prosi: Conposmon, with Exercises. (Ilizingtons, Watc. Luo D'hece, Lomiton).

The abnove worhs are leoth ing A. Sidgwek, M.A., Fellow and Tutor of
 and Fehon of Tranti Culleje. From suah cnrsury examination ns wo have tren nile to five them, wo shonld think them admirably adapted to initiate the young student into the genernl nonstructions nid idioms of



Minth.s, wath nokes l.y M. G. Glasebrowk, M.A., Assistant Master at


This ix a neat and lecantifully printed edition, forming one of the series of the Plays of Euripides hering pablished hy this firm. An innovation is

 interest if the palit in the phet by crecting a serics of " sion-posts." to mark the stages in what looks like one long, dreary secne. The introduction is full of lorlyful information, historical, grammatical, and critical, and tho notas sulticiently coprons for class purposes.

Quenis Questions ava Mendy Merlies. My S. Grant Oliphaut.


Thin ia n rallo ision wf furr hundrell quedtions in Histors, Geosraphy, Bingrahy, Mytholayy, Philosephy, Natural Mistory, Scicuce, Mhilolozy, cte., with their answers. It is clained that the afformation covered by tho guentans and ansucrs is not getherally known, even hemedigent and palut atove se aders, aud that math of at has never infore been pubhished ana form arcrsathe io the great mass of readrrs. No doulht many of the tecms will he ( $\because 1$ it ifre sting, and womic of thern aseful additions to the readers stock of information.

## A Ifrati Ente



 alknt work that yoar ran do andilive at home, at a prosit of at least $\$ 5$ to $\$ 25$ and upwards dails. Some have earned orer $\$ j 0$ in a day. All is new: Capitalaô requred. ذou are started frec. Either sex. All ases. Betler not delay.

