The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.Coloured covers/
Couverture de couleurCovers damaged/
Couverture endommagéeCovers restored and/or laminated/
Couverture restaurée et/ou pelliculée

$\square$
Cover title missing/
Le titre de couverture manque

$\square$
Coloured maps/
Cartes géographiques en couleurColoured ink (i.e. other than blue or black)/ Encre de couleur (i.e. autre que bleue ou noire)

$\square$
Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur


Bound with other material/
Relié avec d'autres documents
Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure

Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent Jans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue biblioy̧raphique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification därís la méthode normale de filmage sont indiqués ci-dessous.Coloured pages/
Pages de couleurPages damaged/
Pages endommagéesPages restored and/or laminated/
Pages restaurées et/ou pelliculées


Pages discoloured, stained or foxed/
Pages décolorées, tachctées ou piquées


Pages detached/
Pages détachées


Showthrough/
Transparence


Quality of print varies/
Qualité inégale de l'impression
Continuous pagination/
Pagination continueIncludes index (esi/
Comprend un (des) index
Title on header taken from: $;$
Le titre de l'en-tête provient:Title page of issue/
Page de titre de la livraison


Caption of issue/
Titre de départ de la livraison


Maethead/
Générique (périodiques) de la livraison

$\square$Additional comments:/
Commentaires supplémentaires:
This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.


# The Canada School Journal. <br> AND WEEKLY REVIEW. 

Vol. X
TORONTO, JUNE 4, 1885.
No 22.

## Lible of $\mathbb{C o n t e n t s}$.

| Editorial :- | Page |
| :---: | :---: |
| The World | 253 |
| The School. | 2.3 |
| Professional Reading. | 255 |
| Methods of Teachin's | 25 |
| Special Articler :- |  |
| Teacher:' Landmarks | 256 |
| Prize Competition Papkrg | 257 |
| Examination Papers .-- |  |
| Drawing | 250 |
| Lady of the Lake | 258 |
| Orthoëps | 259 |
| Practical Department - |  |
| The Lark at the Digrins. | 259 |
| One Way of Teaching Grammar | 260 |
| Educational Notes and News | 261 |
| Literary Cuit-Ciat | 261 |
| Miscellaneous | . 262 |
| Question Drawer. | 263 |
| Teachers' Assoclations. | 264 |
| Literary Review. | 964 |

The Canada School Journal and Weekly Review.

## Edited by J. E. WELLS, M.A.

and a staff of competent Provincial editors.
An Ellucational Journal devotel to thr advincement of Literature, Science, and the teaching profession in Canada.

-     - TH R MS.

THEE WUPGEREPTION price for Tue Canada School Journal is S2.00 per annum, strictly in atvance.

Disiovirinusvceas. The canada School Journal will not be sent to any person after the expiration of the time for which payment has been made.

IE EVE WAIA 4 of subscriptions should be made promptly.
ALI, ESUMVEsa communicationg shoull be addresied to the business manager. Articles intended for publication should be addresse $l$ to the editor.

ADVEHETAE YINTH of a suitable nature will be inserted at reasonable terms. See schedule of rates in another column,

CANADA SCHOOL JOURNAL PUB. CO. (Limited) Publisher.

## The atorlo.

The extracts we have given in our miscellanea from a preliminary report in regard to Lake Mistassini will serve to introduce the fuller discoveries of the exploring party, which will probably be given to the public in a few weeks. Recent Que. bec despatches say that the expedition has been heard from and that the survey of the lake and the geographical inspection of its surroundings will probably be completed in August. The explorers have little doubt that the lake is as large as Lake Ontario. The surrounding country promises great mineral wealth, though believed to be practically valueless for agricultural purposes.

A great experiment is about being tried in New York. The Legislature of the State has at last granted a charter to a company which proposes to place a tunnel under Broadway Arcade to hold all the pipe and wire service of the city, and also to form a means of subterranean travel. It is quite possible that in this way an end may some day come to the perpetual tearing up of pavements and digging of ditches in the streets of great cities.

The death of Victor Hugo is a great event in French politics as well as in literature. As an original and intensely realistic writer he has had few equals. He founded a school of fiction which was eminently his own. As a political writer it has been truthfully said that he was largely instrumental in creating in France the sentiment upon which the Republic rests. With his death one of the world's great literary lights has gone out. He died at a good old age having seen Paris celebrate with great enthusiasm his eighty-third birthday.

Hard must be the task of the Canadian who wishes to keep his mind informed aud unbiassed in regard to public affairs in the Dominion, and who has to depend for his information upon any one of the party newspapers. The practice of giving only one side of a debate seems to be carried to a greater extreme than ever this session. The Parliamentary reports of either of the great dailies give no adequate idea of what is said by speakers on the opposite side. Grant that the speeches omitted are of no weight or force, their publication would but add to the effect of the able and vigorous efforts which are thought worthy of reproduction. What a pity that one of the great organs would not try the experiment of reporting both sides with equal fulness, just for the novelty of the thing.

The announcement that the Anglo-Russian dispute is practically settled by Russia's acceptance of England's counterproposals is a great triumph for the Gladstone Ministry, and a matter for congratulation to all lovers of peace the world over. A war between these two great powers would have moved back the hands on the dial plate of civilization by half a century. The moral courage displayed by Gladstone in resisting the terrible pressure which has for weeks past threatened to crush him and his cabinet, is worthy of all praise. The grand old Christian statesman will be able now, it may be hoped, to lay down the great burden of the premiership with honor, and enjoy during his few remaining days the well earned rest for which he no doubt longs.

## The School.

A subscriber urges with some force that it seems scarcely fair to print the competitive arithmetic papers in advance of the award being made, as later competitors might select from the earlier papers, and so gain a decided advantage. In reply we may say, that this can scarcely be done, as the papers are all endorsed with the date of their reception, and the examiners would he pretty sure to detect any such tactics in the later papers. It was stated, when the prizes were announced, that the papers might be published as received. Several corre-pondents have kindly pointed out errors in the published solutions of some of the questions. As before observed we have no right to revise the papers, but it will, of course, be the duty of the committee of award to take account of such errors.

Much has been said and written of late on the alleged prevalence of color-blinumess. A correspondent of the Pall Mall Gazettc, is right, we have little doubt, in attributing a very large proportion of the cases of so-called color-blindness to simple ignorance. He refars to the fact that the defect is rarely found in female candidates. Why is this, if not because the peculiarities of ladies' attire and therr attention to house decoration, etc., give them a traning in disunguishing colors, which the members of the cther sex do not, as s. rale, receive. The correspondent's suggestion that instruction in colors and their names ought to form a distinct item in the curriculum of elementary schools, is well worth considering. Such a study would have an æsthetic as well as practical value.

Ne are glad to learn that, by invitation of the Grimsby Park Association, the Philadelpha National School of Elecution and Oratory has decided to condurt its summer term upon the Grimsby Park grou ids. The increased attention which is now being directed to the study of the literature of our own mother tongue is one of the most sersibie and hopeful educational reforms of the day. Knowledge and appreciation of standard English authors will shortly become, as it should be, one of the chief tests of a good education. Good reading is beyond. controversy, the "open sesame" to all literature. It should be the object of every teachers' ambition and indefatigable effort to become a good reader. The school of which Dr. Edward Brooks is president, stands, we telieve, deservediy high. The course outlined in the advertisement on another page is comprehensive. We hope that the emerprise may prove a success, and be the means of giving a lasting impetus to good reading, in every sense of that ambiguous phrase, in Ontario.
"The function of the teacher is that of an eternal moral force, always in operation to excite, maintain and direct ine mental action of the pupils,-to encourage and sympathize with their efforts, never to supersede them." This maxim of Jacotot contains the fundamental principles of all good teaching. The fluent talker is not necessarily the stimulating teacher, often the opposite. To give information, to lecture, however :learly and ably, is not the first or chiet work of the teacher. It cannot be too often or too strongly insisted upon that the true measure of teaching power is the amount of thinking, of real brain work done by the student. It is quite as easy to help the child too much as too little. Possibly more harm is done in the former way than in the latter. Only, as, and in so far as, the learner is making discoveries for himself, his mind doing its own independent work, is the process of education gring on.

Vigorous action is being taken in reference to the death of a boy at King's College School, London, by the crucl treatment received at the hands of the larger bojs. Sir William Harcourt, the Home Secretary, has placed the matter in the hands of the public prosecutor. In announcing the fact to Parliament, Sir William spoke in terms of great indignation, and said that he had given instructions to obtain evidence and, if possible, a conviction of the culprits. No doubt the sad
affair will lead to the reform of heary abuses in this and other schools, and ameliorate the condition of many, of the poor lads who have the misfortune to be the younger boys of such insti¿itions.

The Iondon, (Eng, School Guardtan, deploring the temporary defeat in the London School Board of a motion to establish, as an èxperiment, two Day Industrial Schools in the neighborhood of the Docks, remarks that, notwithstanding all objections, practical success is an answer to all opposing sheorics, and that "in many parts of the country, Day Industrial Schools have been the moral saing of the people and have quite vindicated themselves," and adds that, under the adverse decision, "the moral recovery of some hundreds of children awails a more convenient season."

We give this week the first of a number of papers on draving. These are being prepared for Tue Journal by competent authors, with spccial reference to the approaching examinations. In yiew of the nearness of those examinations we have thought a few sets of such parers would be more helpful to a large number of our readers than the initial numbers of a contimuods serics, which could not progress far enough in the few intervening we eks to be of great service to those going up for first examinations. After the midsummer examinaitons we shall have the whole subject treated progressively by competent writers. The papers presented in this and subsequent issues will speak for themselves. The fact that the author of the one given in the present issue, is a graduate of the Ktnsingion (Erig.) Art Schcol, as well as a successful Canadian teacher, affords a doubie guarantee that the papers will be of the right sort. We intent for some time to come to pay especial attention to this subject, and our first aim will be to have it treated in an artistic, yet thoroughly practical, manner.
"How shall I spend my vacation ?" is no doubt just now a practica: question with a good many teachers. We allude to $t$, not because we have any general recommendation to make. We have no summer school scheme to promote, no self-interest of any kind to serve. We would that every teacher might go from home for a few weeks, visiting the large cities and centres of interest within reach, making the acquaintance of other educationists, studying new objects and methecis, enjoying beautiful and historic scenes, and mingling with men of different pursuits and modes of thought. In a word we wish the holidays could be made by each a season of rest, recreation, travel and self-improvement. Each would then go back to his work with renewed life and enlarged vision, and the schools would respund to t? new impulses imparted. Every teacher who is worthy of the profession ought to be able to do this. It would pay the parents and other suppurters of schools to enable them to do it. We look for a gnod time coming,--though yet we fear far in the dim future-when every one will feel that he can aff $d$ to do it.

As might have been anticipated the proposal of the English National Union of Elementary Teachers to stcure direct repre-
sentation in Parliament, is found beset with practical difficulties, some of which the Sciool Guardian forcibly points out. In the first piace there is the difficuity of getting constituencies to return their candidates. Theat their representatives, once elected, would be no longer teachers but only ex-teachers. Again as no man can serve two maters, the representative elected rould be in a very avkward position. Will he be the servant of the constituency which rearns him or of the Union which supportshim? Worst difficuity of all, as the mernbershu of the Uniors is made up of Liberals and Conservatives, shall the candidates be Liberal or Conservative? Upor this rock the novement will probably split. To at, unlooker it would cortainly seem as if the Union might influence legisla. tinn, much more hopefully from without Parliament, than from within. Its power which is happily becomarg considerable, may effiect more by being brought to bear through a number of representatives, than if the duty of representing advanced views were left to rest upon the shoulders $o$. one or two specially chosen members.

There is no accounting for taste in logic any more than in Aress or decoration. Mest educationists will join with the London [Eng.] Schoot,naster in deprecating the cruelty and cowardice of such "bullying" in the Public Schoois as led to the death of the poor lad at King's College, but feiv will be able to see the iorce of the argument whick that Journal quotes with approval from The Qusen, and which regards "this lamentaile occurrence as in great part fue to the maudlin and mawkish sentimentality of the age," the sentimentality, viz: which " is opposed to the infliction of corporal punishment." "At a good Public School," argues the Quec", "where the master has the authurity of a parent delegated to him, and can inflict corporal punishment if he sees fit to do so, such an act of syranny as the killing of a boy by the elder scholars would not occur, as the bullies would dread the sound flogging they would receive for every act of tyranny practised by them. "This is surely applying the principle of similia similibus in logic with a vengeance. It reminds us of the anecdote we have somewhere ruadin which a father is represented as reproving his son in terms of awful profanity for swearing. The argument is surely on the lucus a non lucendo principle.

## PROFESSIONAL READING.

We-notice that at one or two of the Teacher's Associations resolutions have been passed favouring the proposalito have a course of professional reading prescribed by the Minister of Education, as a kind of post-graduate course for members of the profession. This desire for further improvement is laudableNo one, with a spark of the true teacher's spirit in him, will wish to "rest and be thanktul," when once he has secured his certificate and a tolerable situation. But is there not a more excellent way of progress? Cannot a large body of intelligent, educated men and women do better than follow a uniform, monotonous, cui-and-dried course, madeready for them by the Education Department? W not take the matter into their
own hands, emanicipats these readings from the fetters of departmental routine, and, reiying upon the ample resources of their own complex individuality, form their own reading circles and mark out their own courses? Those courses will be all the better for not being too strictly protessional. A generous admixture of general literature of a high class will make it more stimulating and more broadening. Nor 's it at all desirable that all ceachers throughout the province oi Ontario even should read the same course? On the contrary, both the profession and the country will be the better for a variety. If any number of teachers from half a dozen, or less, to half a hundred, can consult together, agree upon three months' reading, and make arrangement fur regular interchange of thought and work either at stated meetings or by systematized correspondence, we verture to say better results will be gained than are possible from any authorized routine? The benefit to be gained will be proportioned not to the amount or quality of the matter sead, nor even to the thoroughness with which the ideas of celebrated educators are learned, but rather to the amount of individual thought and application secured. For this there is nothing like the friction of mind with mind, the free interchange of opinion and criticism.

## METHODS OF TEACHING.

A writer in the New England Journal of Education asks his readers whether it has ever occurred to them in looking through some of the new primary and oral arthmetics that the author was afraid the children might have something to do. The question suggests a fault which, it seems to us, besets many of the socalled new methods as well as new books. It is the danger which threatens the kindergarten. In reading the "Quincy Methods," excellent as its lessons are in many respects, and full ci helpful hints as to the best meians of getting at the child mind, the query perpetually recurs, can there really be living children of four or five years of age and upwards, who require to have every obstacle in their pathway so finely pulverized, and all their mental pabulum so wonderfully diluted? No doubt there are such children and as long as the methods in question are strictly adapted to the mental state and needs of the little ones, ihey are truly admirable. The great danger is that many teachers may, through error in judgment, go on pulverizing and diluting to the injury of the child whose brain craves heartier food and the more vigorous exercise necessary for healthful growth.
It must never be forgotten that the intellect of the child, no less than its limbs, must be strengthened by exertion, and that the healthy child delights just as much in the vigorous use of the one as of the other. We all know how the average child enjoys the most vigorous gymnastic feats of which it is capable, at the various stages of growth. Nothing is more contrary to its nature, or mure repugnant to its impulses, than to be helped to do that which it can do for itself, or to be restrained by leading strings when it would gambol and tumble at its own sweet will. It is the gambolling and tumbling, not the helping hiand or the leading string which strengthens bone and muscle. And the healthful child is formed to take just as much pleasure
in mental as in physical fents. Its mind, no less than its body, delights in doing hard things.

The principle we wish to reach is this, and we ennunctate it confidently. The more and the harder things a pupil can be led to find out and do for himselt, the more rapnd will be his progress and the greater his joy in study. Every true teacher will know how to recognize the kindly cye and the flushed cheek which tell of mental effort and conscious trimuph, and will delight in calling them forth. The true aim of educational reform is not to make the pathway too level, or the grade too easy for the foot of the little learners, but to see to it that the exercises are such as to bring not merely memory, but reason, refiection, judyment, imagination, and every faculty into vigorous and successful play.

## Spccial afticles,

## 'rEACHER'S LANDMARKS.

1. Lead the pupils to discover what in the present lesson is now, to distinguish between the matter of this lesson and the matter of the last one. The passage from the known to the unknown is matural to the mind; knowledge grows from knowledge. Here emphasis should be laid on the importance of tinishing the lessons day by day, if possible. Experienced teachers know how sluggishly the majority of papils work on matter that they have worked over before. Threshing old straw is never inieresting. Hence the aim should be to make overy lesson successful, to hatve as few failures as possible, and to keep the edge of curiosity sharp. One conquest prepares the way for another songuest; and few things are more valuable to the student than the habit of success. An excellent scholar of my acquaintance partially failed as a teacher from making his lessons ton long, the result being that the same matter was often under study for two or three days. Let the lesson be such that it can be finished, and then let thoroughess in preparation be insisted on.
2. Successful primary instiuction is strongly realistic. The teacher should cause the pupil to understand that material things are be. hind all langunge relating to material thinge. Formal ubject lessons are far less important than objective teaching. Only too often school arithmetic is merely a nanipulation of figures back of which nothing is seen. Attention should bo paid to teaching children adeguate ideas of distance. How high is the school house? What are the dimensions of the school room? How large are the school grounds? How far is it from one famliar object to anothor (say from one street to another)? When he has formed an adequate idea of a half mile or a mile, the pupil can the better judge of the width of a river or the height of a mountain. Such efforts as these stimulate the imagination, furnish a ready means of associating ideas, and fix facts in the mind. The pupil should not be loft to think that the Mississippi Riveris a streak of black ink on a sheet of white pajer. However, it must not bo forgotten that the time comes when, relatively, illustration must recede towards tho background. There is abstract as well as concrete thought ; there are concepts as well as percepts, general as well as particular ideas. At the proper time the pupil must bo put in the way of dematerializing or unsensing things. An mtelligent school bry, well taught in book ways, expressed a desiro to gin to the boundary between Pennsylvania and Diryland. Asked what he supposed the boundary is, he answered-"A rope!"
3. Teach the pupil to look carefully into the meaning, oi languago; that is, challenge him with constant guestions as to yords used in definitions, rules, descriptions, and examples. An example in arithmetic is put brfore the pupil; before be begins to "cipher" let hin look searchingly through the example to make sure that ho mederstands all the clements that it contains. 'Ieach him to lay hold of the key words to a sentonce-to suize the salient idens of a paragraph.
I cannot resist the impression that teachers as a class fail to apprecinte the extent to which the instruction of school children is in words merely. Words aro memorized, and thon handed as though they were facts, things, thoughts. It is both instructive and amusing tó call a chass of children out into discussion, and,to listen to their arguments. I shall here record, as literally as I ean, two discussions in which I have bome a part. The first is rith a class of boys that have just passed a very satisfactory cal examination in the history of the United States, incluaing the Emancipatic: Prociamation of Presidont Lincoln.
"What is sluvery "" "There isn't any now." "Isn't therestill slavery in some countries ?" Yes, sir." "Then you mean that shavery doesn't now exist in the United Stntes?" "Yes, sir." "There was once slavery in the United States then ${ }^{\prime \prime}$ " "Yes, sir." "Where "" "In the South." "Well, what was slavery when we had it ?" The universal silence that follows this question leads ine to change the abstract for the concrete form. "Well, then, what is a slave ?", "A negro." "A negro! vero all negroes slavesthe negroes in the North?" "No, sir." "Then it is not a good answer to say a slave is a negro,-is it " We must try again. "What is a slave $?$ " "A slavo has a master whom he has to mind." "Yes; and so a boy has a father whom he has to mind, -hasn't he"" "Yes, sir." "Then what is the difference between a slave and a boy ?" "A slave has to work very hard." "And some boys have to work very hard : is that the difference-the slave has to work harder than the boy?" "A slave, if he does wrong, gets whipped." "And so bcys sometimes get whipped; what is the difference then ?" "If the slave does wrong he gets a terrible whipping; but a boy only gets cut once or twice." "Are you all satisfied with this answer ?" Silence secms; to show that the class camot throw more light on thequestion. So I change my tactics again. "Cam a master sell his shave?" "Yes, sir." "Cam a father sell his boy ?" "No, sir." "Then is not this the difference -a slave is property, a thing, or chattel, that cun be bought and sold, while a boy is not ?" "Yes, sir." This dialonne shows how pupils of considerable intelligence, able to recite memoriter grod lessons in the history of the United States, can go on hearing and using such words as "slavery" with no just idea of what they mean.
The second discussion is excited by the use, by pupils, of the phrase, "The New World." "Did you say "The New World?" "Yes, sir." "Is there an Old World also ?" "Yes, sir." "Then there are two worlds, are there?" "Yes, sir," and "No, sit." "You do not agrec; what do you mean by the New World ?" "The western continent." " and by the Old World?" "The eastern continent." "Then in this sonse there are two worlds?" "Yes, sir." "Why is the western continent called the Nuw World?" "Because it was made after the eastorn continent." (One boy says four hundred years after!) "Because it was made after the old World ! Is that the reason?" "Because it was diseovered after." "Discorered after! Who discovered tho now world?" "Culun. bus." "When did he discover it 9 " "Tn 1492." "Who discorcred the Old World !" No answers. "Was it ever discovercd in the sense that the New World was ?" "No, sir." Evidently this discussion had reached ita liṇit with primary children, and so it
was droppod．They did not see all that was ombraced in the gnes－ tion，but presumedly thoy had learned something．

Thoso dialogues have not beon reported because thoy show special defects in teaching；theso pupils had been well taught，as teaching gues．But they show how incorrest and vague the infor－ untion of childron often is，how inexnet，falso，and contradictory arethir notions，and what the tanchor must do for thom．Too much importance can hardly bo attached to the use of tho diction－ ary；however，if the child simply cons from it vorbal definitions， it may be doubted whether its usu is not a disadvantage．－From an alduress by Supt．J．A．Minsdule，Cleccland，Ohio．

## 引uize © omptition．

## ARITHMETICAL PROBLEMS．

for canadi school journal compatition prizes－Fourth class． BY EX LUCE LUCELLUM－APHIL 10̄TH， $188 \mathbf{J}$.
nore．－In every solution where proportion is used the Unitary mothod nay be substituted．

1．Simplify the expression：

2．Find the value of

$$
\begin{aligned}
& \text { 1s. } 4 \mathrm{~d} \text {. } \\
& -2 \frac{2}{8} \text { of }\left(2 \frac{1}{4}-1 \frac{1}{3}\right) \text { of } 7 \mathrm{~d} \\
& \text { £7 12s. } 6 \frac{2}{2} \mathrm{~d} \text {. } \\
& \text { 1s. } 3_{5}^{2} \mathrm{~d} \text {. }
\end{aligned}
$$

$$
\begin{aligned}
& 8711 \mathrm{~s} .3 \mathrm{~d} \text {. }
\end{aligned}
$$

3．How many cents must be added to

$$
\frac{0007 \overline{0}+375}{-25 \times 075} \text { of } \$ 0.50
$$

to make it cqual to $\$ 1.00$ ？
88 领 3 of $50 \cdot=16$
$\$ 1.00-16=80.84 . \quad 84$ cents．
4．Express as a jecimal

$$
\begin{aligned}
& 2.03 \times 17.27 \div 4609 .
\end{aligned}
$$

5．Reduce .25 of 1 guiner $+622^{\circ}$ oi 1 crown
.3 of $7 \mathrm{~s} .6 \mathrm{~d} .-.375$ of 6 d ．
to the decimal of $£ 2.2 \mathrm{~s}$ ． 9 d ．
$2^{2} 0_{0}^{5}$ of $21 \mathrm{~s}=$ ös． 3 d ．
${ }^{2}$
$3_{4}^{3}$ of $7 \frac{1}{2} \mathrm{~s} .=2 \mathrm{~s}$ ． 6 ．


$$
\frac{10 \mathrm{~s} .8 \mathrm{fa}}{£ 2 \text { 2s. } 9 \mathrm{~d} .}=\frac{1}{4}=2 \overline{0}
$$

6．Divide $£ 12$ 63． 8 d ．between two persons，giving to one two－ thirds as much again as tho other．

7．A land owner has threo estitos containing 2457 ac． 2912 ac． and 3918 acres respectively．He divides his estates into farms as large as possible，all containing the same number of acres．Find how many firms he will have and tho sizu of each．

G．O．M．$=91$

01 acros in each． 102 farms．
8．Three merchants invest $\$ 5,000$ ，paying it proportion of 6,5 and 4．Ono year＇s profits amount to $\$ 750$ ．Find each man＇s hare and the rate par cont．for which he receives interest，and also he value of his capital．


9．Of five legatees the first recsives 3 the second 3 the third -03 the fourth 03 and the fifth the remainder amounting to 836 ，－ 400．Low much doos oach recuive？

$$
3+x^{3}+{ }^{3}+r^{3} 0=280
$$

Remainder is siof or 36,400

$$
300=\$ 400
$$

| $38 \%$ |
| :--- |
| 38 |


10． 60 yards of carpet aro bought to cover a room $15 \mathrm{ft} . \times 27 \mathrm{ft}$ ． 3 in ．，at 4s．Gd．pee yard．The remnant is sold for 3 s .4 d ．per yard． lind the whole cost，the carpet being 2 ft ． 6 in ．wide．

6 strips each 9 tit yds．long $=54 \frac{1}{2} y d s$.

$$
\begin{aligned}
& 60 \times 43=270 \\
& 5 \frac{1}{2} \times 3 \frac{1}{2}=18 \text { ? }
\end{aligned}
$$

$20120.1 \%$ £12 11s． 8 d ．
11．Show by examples，tiat if of the four terms，aum of money invested．Rate per cent．of interest．All uI oi interest．Time any three be given the fourth may be found．Let sum＝s．Rate per cent．$=r$ ．Amount of Interest $=I$ ．Time $=t$ ．
（a）Given $s=\$ \overline{0} 00 r=6 \%, 2=2$ years．Find $I$ ．

$$
\begin{gathered}
6 \\
\begin{array}{r}
30.00 \\
\hline \\
\hline 660.00
\end{array}=I .
\end{gathered}
$$

（b）Given $\overline{=6 \%} T=2, I=60$ ．Find s． $6: 60:: 100$ 000 0 ． $2^{\cdots} 1^{\cdots} \quad 10$
（c）Given $s=500 r=6 \% I_{1}=60$ ．Find $t$ ． $6.160: 11$
（d）Given $s=500 I=60 t=\frac{2=t}{2}$ Find $r \%$ $500: 100:: 60 \quad 1 \quad 6=r \%$.
12．The prime cost of a 60 gallon cask of wine is 875.00 ． 0 gallons are lost by lcakage and 30 gallons are sold for 82.00 per gallon．At what price must the remainder be sold per ciallon to gain $50 \%$ on the whole cost？


13．By selling a horse for $\$ 140 \mathrm{I}$ lose $30 \%$ ．For how much must I sell him to gain $5 \%$ ？

$$
\begin{aligned}
& \text { Prime cost }=200 \\
& 5 \% \text { on } 200=10 \\
& \$ 210
\end{aligned}
$$

14．By selling tiro houses for $\$ 800$ each，I lose on one $25 \%$ and gain on the other $25 \%$ of the cost price．Find tho．gain orloms on the transaction．

$$
\begin{aligned}
& \begin{array}{l}
\text { Prime cost of one, } \\
\text { Pritae cost of second, } \\
\frac{10607}{640} \\
\frac{17063}{2}
\end{array} \\
& \text { Selling price of both , } 1600 \\
& \text { Loss }=\$ 106 \frac{2}{3} \text {. }
\end{aligned}
$$

15．An imported organ which bears a duty of $25 \%$ ，is sold at a loss of $8 \%$ ．Hidd it been sold for $\$ 20$ mora，there would have been a gain of $2 \%$ ．For how much was the organ invoiced？
$\$ 20=10 \%$ on $\$ 100=\$ 20$ on $\$ 200$
$\$ 200$ less $25 \%$ on cost $=\$ 160$.
16．What must be the niarked price of a piece of goods，which cost 86 ，that the merchant may throw off $10 \%$ ，and still make $25 \%$ profit？

1C0：600：：125：750
90：7⿹勹龴⿱丆贝：：100：$\$ 8.33$ §．
17. A dealer mixes teas worth 50 cents, and 37 cents per pound respectively, in the proportion of 8 pounds of the former to 5 pounds of the jatter, and sells the mixture at the rate of 45 cents per pound. He uses for a pound weight one which weighs only 15. 75 . How much does he gain on every cwr. he sells?
18. Gold is worth 4 guineas an ounce. Find the value of a gold ormament, weighing 6 ounces, of which 18 out ef every 24 parts are pure gold, allowing 3 . per ounce, as the valte of the alloy and $33: \%$ on the whole cost of workmanship.
is of $6=4 \frac{1}{2} \mathrm{c}$. gold $1 \frac{1}{2} 0 \%$. alloy.
19. Trees are to be planted around a rectangular field, containing 15 acres, one of whose sides measures 10 chains. How many will be required if they are set 11 feet apart?

$$
15 \mathrm{ac} .=150 \mathrm{sq} . \mathrm{ch},=10 \times 15 \mathrm{ch} .
$$

Perimeter $=20 \times 80=00 \mathrm{ch},=3,300 \mathrm{ft}$.

$$
{ }^{0} 3 \beta^{5}=300 \text { trees. }
$$

20. A railroad runs through an estate for 18 miles, occupying a space 33 yards wide, valued at $\$ 5.67$ per acre. The owner in exchange receives a square field worth 7 d stg. per pole. How many acres must it contain?

21. A rectangular plut of land is 160 feet $\times 120$ feet. It has a ditch around the outside, and two others intersecting at right angles in the middle of the plot. If the ditches are 5 feet wide, and 2 feet 2 inches deep, and cost 54 cents per cubic yard, find the cost of digging then?

$$
\begin{gathered}
2(160 \times 5 \times 5)=340 \\
2 \times 120=240 \\
160 \times 115=275 \\
8905 \times 54=3102.10
\end{gathered}
$$

22. The forewheel of a carriage is 12 feet in circumference and makes 2,200 revclutions more than the hind wheel in $1 \overline{5}$ miles. Find the circumference of the hind wheel.
$1700 \times 15 \times 3=70.200$
12679,200

$$
6,600
$$

$$
\frac{2,200}{4,400)}
$$

$$
4,400) 79,200 \text { ( } 18 \text { feet. }
$$

23. A block of ice measures 4 feet by 3 feet by 2 foat 1 inch. How many gallons of water does it contain, if water expand in freezing and one gallon $=277 \frac{5}{9}$ cubic inches?
24. $4 \mathrm{men}, 5$ women, 6 boys or 8 girls can do a piece of work in 47 days. How long will it take 2 men, 4 women, 5 boys and 8 girls to do it, all working together?

$$
\begin{aligned}
& 4 \times 3 \times 21_{12}^{1}=2 \overline{\mathrm{c}} \mathrm{c} \text {. } \mathrm{ft} \text {. } \\
& \text { io of } 20=22 \mathrm{~d} . \\
& 1728 \\
& \frac{\overline{38,880}}{2777^{5}}=140 \text { gallons. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ( } \mathrm{sov} .=84.86 \text { ) }
\end{aligned}
$$

$$
\begin{aligned}
& \$ \overline{0} .67 \\
& \text { 1224.72 }
\end{aligned}
$$

$$
\begin{aligned}
& \frac{4}{18}-\quad \frac{3}{4 \frac{1}{2}} \text { s. } \\
& \frac{21}{37} 8 \mathrm{~s} \\
& 4 \frac{1}{2} \\
& { }_{2305}^{33} \text { of } \overline{382} \frac{1}{2} \mathrm{~s} .=510 \mathrm{~s} .=£ 2 \overline{0} 10 \mathrm{~s} .
\end{aligned}
$$

$$
\begin{aligned}
& 13 . \frac{\overline{58} \overline{5}}{45}-4 \overline{5}=0
\end{aligned}
$$

25. $A$ and $B$ can do a piece of work in 8 days, $B$ and $C$ in 10 days and $A, B$ and $C$ in 6 days. If $\$ 240$ be paid for the work, find how much cach man earns.

$$
\begin{aligned}
& A+B+U=\left\{\text { in } 1 \text { day } d-\left(\frac{1}{1}+\frac{1}{2} s\right)=1 \frac{2}{2} \sigma=\bar{B}=17 \frac{1}{2}=84\right. \text {. }
\end{aligned}
$$

126. The driving wheel of an congine is 7 feet in diameter and makey 180 turns per minute. How many telegraph posts will it pass in 1 hour if they are 80 yards apart?
(Ciscumference of a circle $=3\} \times$ dinmeter)
$7 \times 3 \times 180=3960$ feet per minute,

|  |
| :---: |
| 79200 |
| -80 |

## Examination fapers.

## DRAWING.

by whliam burns, high school, brabipton.

1. Draw a square of 4 in . side ; inscribe in this the largest possible octagon. Around the centre incribe another square of $1 \frac{2}{2}$ in. side, parallel to the first, and again inscribe an octagon. Shade the positions of the squares risible in "half-tivt."
2. Explain the methods of drawing an eclipse (1) by using the foci, (2) by using the lengths of semi-axes onfy.
3. Draw a rosette of 3 in . size-having eight points; all lines to be curves, but not segments of circles.
4. Draw outline of a vase ; height, 10 in .; top, 4.in.; greateat width ( 6 in .) at a point 2 in . from ths base. Sides consiating of curved lines only. Scale $\frac{1}{3}$.
5. Draw (frommenory) a set of book-shelves open-with three shelves and ornamented top. Height, 4 ft .; breadth, 3 ft .; width of sholves 1 ft . Scale $\frac{1}{8}$.
6. Give perspective view of a plinth 6 ft . by 4 ft . by 2 ft ., supporting a cubical block (at its centre) of 3 ft . side. Surmount this block by a column of 6 ft . high and 2 ft equare. Distance of spectator 12 ft . Height of eye 6 ft . Picture 2 ft . to R . of line of sight, and 1 ft within the picture-plane. Scale at.

## "LdDY OF TRE LAKE,"-Garro v.

by william burns, higi school, mrampton.

1. Give connection of following lines with the preceding Can-tos:-
i. And true to promise led the way, By thicket greein and mountain gray.
ii. When here but three days since I camo Bewildered in pursuit of game.
iii. Seek other cause 'gainst Roderick Dhu,
iv. Bold Saxon-to his promise just Vich-Alpine has discharged his trust,
r. Sees't thou, De Vaux, yon woodman gray Who town-ward holds the rocky.way.
2. Explain allusions in the following lines:-
i. The spoils from uch foul foray borne,
ii. Their headlong passage down the verge;
iii. Of yore her eagle-wings unfurled,
iv. A Douglas by his sovereign bled;
v. A purse well-filled with pieces broad.
3. Criticize grammatically the une of the italicized worda in the following :-
i. Muttered their soldier matins by,
ii. The danger's self. is here aloue.
iii. Enough I am by promise tied,
v. While all along the crowded way Was jubilee and loud huzza.
4. Give a skotch of the plan of this Poem, accounting for its division into Cautos and Sections.

## ORTHOISPY.

bY J. E. Wethehell, b. A., head mastbi coll. iNs., sthathroy.

## I.

1. Datine orthoïpy, articulation, accent.
2. Is urthoëpy a science?
3. What is meant by the statement that good usage is the highest authority in orthoipy? (What is good usaqe)?
4. "Witll regard to many words there is an acknowledged disagreement among tho best orthoeipists." Illustrate this statement by the words orthöpy and pronunciation theniselves.
5. Explain the expressions, "system of phonetic notation," " diacritical marks," " vernacular speech."
6. What is objectionable in the expressions "improper örthoopy" and "written örthoepy"?
7. Aro "clear articulation" and "distinct utterance" synonomous expressions?
8. Mention any common defects in articulation.
9. What is meant by ultimate, penultimate, ante-penultimate, as applicd to accent?
10. Illustrate the uses of the the diaresis and the cedilla.
11. What is syllabication? By what other name known?
12. Give some general rules for syllabication?
II.
13. Illustrate the different sounds of the vowel $a$.
14. What is the differenco between diphthong and digraph?
15. What consonants are sometimes silent? Give one examplo of each in a word.
16. When are $c$ and $g$ soft? When hard?
17. "The letter $q$ never stan's alone." What letter always accompanies $q$ ! Could the sound of this digraph be represented by any other comhination of letters?
G. The letter $r$ has a hard, trilling sound; and a soif, liquid sound. Name illustrative words.
18. What are the different sounds of ough'?
19. Give words to illustrate the aspirate sound and the rocal sound of $t$.

## III.

1. Mark tho accent of adult, adverse, ally; assets.
2. Spell phonetically agile, ussociation, Asia.
3. Show how a variation in accont affects the:words absent, affix, attribute.
4. Mark the quantity of italicizediletter in apex, apricot, charade.
5. Discriminate botween the words:in each of the following pairs: emigrant, immigrant;
infyenious, ingenuous;
caret, curat;
contricil,.connsel;
descent, dissent.
6. Discrininato between tho words ineach of the following pairs: strait, straight;
raze, raise;
canon, cannon;
arc, ark;
meter, metre.
7. Divide-into ayllables-laity, neverthclens, ferer, virer, alternate, agriculturist.
8. What different forces havo the form conjure, bleased, aye, according to pronunciation.

## \#ratical £cpartment.

## ENTRANCE LITERATURE.

$$
\text { THE LAKK AT THK DIGGINS.-PAGE } 304 .
$$

bY H. Kay coleman, head alaster public bceools, pexerboro.
Line 1. Stride, to tako long steps. Principal parts, stride, strode, strid or stridden. Brisk, full of life and apirits; briskly, in in active, lively manner.
Line 2. Squatter, -one who squats or settles on land without a title. What word does small qualify? Premises, -houses, land otc., conveyed by deed. What other meaning has this word?
Line 3. Change this sentence into indirect narrative.
Line 4. Innocent,-harmless, guiltless, pure.
Line 6. Thatched,-covered with straw or reeds. Changerthis and the following sentence into the active construction.
Line 6. Furze-a prickly shrub. Spell and give the meaning of a word pronounced like furze.
Lino 7. Vertical,-perpendicular. Paling,-derive this wordand define palisade. Learn to spell barred, and tell when the final consonant is doubled before an affix ; give exceptions.
Line 9. Magnificent,-what part of speech? Give the corresponding verb.
Line 10. Bound Australia. Draw an outline map marking a dozen places. Consistency.-Give the meaning of this riord and parse it. Give its corresponding adjective and adverb.
Line 11. Why ouk, and ash? Had 'Canadian' been written:ou the plantation, what tree would have been found 3 Defino rival. What is its meaning as a verb? "Over-towering rival." What trees would these be?
Line 13. Oval,-Latin, ovum an egg, egg-shaped. Draw an opal. Write the sentence begining "Ah! well," in indirect discourse.
Page 305.-Line 5. Gigantic,-huge, enormous. What noun does this come from?
Line 6. "What ! is this," etc. Parse the two whate-in this sentence, and tell. what kind of a sentence it is. How many parts of speech may 'what' be. Write sentences and illustrate.
Line 8. What do you know rbout ay and aye? Parse Robinson's. What is the difference between; 'the King's picture,' and 'the picture of the king ?'

Line 9. Define remonstrance, give the corresponding'verb, and compare it with ' expostulate.'

Line 16. Cackle,-foulish prating. Derive. "Like most-singers, etc." Explain.

Line 25. Oadences. Give the singular and meaning.
Line 26. 'Sotto voce,' Italian, in a low tone. Commit to memory the paragraph beginning, "It awelled its-littie throat." Why are the diggers called 'rough fellows,' 'shaggy, men '' savagemen,' 'rough diggers,' and described as having ' rugged mouthy;' 'shaggy lips,' 'unbridled hearts,' 'bronzed 'and rugged cheeks,' and: as being:full of 'oaths, s'riie; cupidity;idrink, lusta, and remorses ?'
Page 306. - Dulce domum, -Latiu, sweet home, Write: sentences to show that you clearly understand-the difference between 'remorse,' and ' ropeutance.'

The author contrasts the state of these:unfortunate convicts with their bright and promising youth. The depths of degradation to which men may fall, we see around us every day. Australia was full of horrible examples at that time being a penal settlement of Britain, to which the worst criminals-were sent. And -atill amidst the moral darkness the novelist paints one bright ray of hope. Until the heart has become so callous that no trichling tear can course the cheek, Qod's mercy may rescue the worst. Although remornealone, of which these men seem only to have heen possossed, is of little
nvail, it is the precursor of repentance, and to penitent man God's mercy is limitloss, and its recipiont is he over whom the angols of heaven rojoice.

Charles Ruade, an English barrister, and novolist. His works show rare constructive skill. He is some-what extravagant in incident, but a graphic delineator of charactor and plot. His chief works are. Pog Woffington, Christie Johnston, and Novor too lato to mend.

ONE WAY OF TEACEING GRAMMAR.-(VI.)
by miss dda M. gardener.

## Topic: Attribute.

Definition: The attribute of a sentence is a part of the predicate used to donote amme property, quality, or condition of that which the subject names ; or it may he a part of tho predicate used to denote the same person or thing as the subject.
Method: Give the predicate of this sentence: "The cord is elastic."
Auswer.-_" Is olastic."
What name do we give to that which bolongs to any one or angthing?
Ans.-Property.
Then what is the elasticity of the cord?
Aus.-A property of the cord.
Of what is the word "elastic " $\mathfrak{a}$ part?
Ans. - It is a part of the predicate.
What does this part of the predicate denote?
Ans.-A property of the cord.
What part of this sentence is used to name the cord?
Ans,-The subject.
Tell me all about the word "elastic."
Aus.-It is a part of the predicate used to donote a property of that which the subject names.
Take this sentence,-"The cloth is coarse"; what is the predicate?

Aus.-"Is coarse."
Describe the word "coarse."
Ans.-It is a part of the prodicate used to denote a property of that which the subject names.

Use a better word for "property" in this case. No one can? What is the quality of the cloch spoken of? Was it coarse or fine? Then what does the word "cuarse" denote?

Aus.-A quality of that which the subject names.

- Tell me about "coarse."

Aus.-It is part of the predicate used to denote a quality of that which the subject names.

Take this sentence,-" The man was insane"; what is the predicate?

Ans.-" Was insave."
What was the condition of this man?
Ans.-He was insane.
Then tell me about the word "insane."
Ans.-It is a part of the predicate used to denote a condition of that which the subject names.

Now let us roviow. Give me your list statement about the word "elastic"; about the word "coarse"; about the word "insane." In each case we have an attribute of a sentence; can you tell me what we mean by the attribute of a sentence?

Ans, -An attribute of a sontence is a part of the predicate used to denote some properly, quality, or condition of that which tho subject names.

Take this sentence,-"Those men are carpenters"; give me the predicate.

Ans.-"Are carpenters."

Does the word "carpenters" donoto the same persons as the subject, or does it denote different persons?
Ans.-It denotes the same persons as the subject.
In the sontence "The shores are empires," what is the precicato?
dins.-"Are empires."
Compare the thing donuted by "ompires" with that denoted by the subject.

Ans.-It is the same.
Describe the word "empires."
Aus. -It is part of tho predicate usod to denoto the samo thing as tho subject.

Give the definition of attribute. Add to it tha words, "or it may be a part of the prodicate used to donote the same porson or thing as the subject." Now give the complete dofinition.

Topic: Copula.
Definition: Tho enpula is a part of the predicato used to connect
the attributo with the subject.
Method: In the last sentence give the subject.
Ans.-"Shores."
Give the predicate.
Avs. - "Are empires."
Name the attribute.
Ans.-"Empires."
What word connects the attribute with the subject?
Ans.-The word "are."
Describo this part of the predicate. Bycauso it joins or couples the attributo to the subject it is called the copula of the sentence. Dufine copula.

## exercise 1.

Select the attributes and copulas in the following sentences, and
give reason for your choice :

1. All men are mortal.
2. Washington was truthiul.
3. To err is human.
4. To forgive is divine.
5. To lie is disgraceful.
6. Poverty is no sin.
7. Work is no disgrace.
8. Industry is the primal blessing.
9. The school is the manufactory of humanity.
10. Remorse is virtuo's root.
11. Great men are rare.
12. Eloquence is the child of knowledgo.
13. Life is the gift of God.
14. Experience is the tes! of truth.
15. Love is the true price of love.

## EXERCISR II.

Write sentences containing attribute and copula. Underline the attributes with one line, the copulas with tivo.
Topic: Simplo subject.
Defiution: The simple subject of a sentence is the subject without any limitations.
Method: "The old tree was blown down." Name the subject without any of its limitations.

Ans.-"Tree."
"Tree" is the simple subject of this sentenco. Defino simple subject.
Topic: Simple predicate.
Definition: The simple prodicate of a sentenoo is the predicato without any limitations.

Method: As for simple subject.
Topic: Cumplex subject.

Definition: The complex subject is tho simphosubject with allits limitatimus.

Mefhed: In the sontence, "The old tree was blown down," nume the simple subject. Now name the simple subject with all its limilations. That is the complex subject of the sentence. Define.

Topic: Complex predicato.
Definition: The complex predicato is the simplo predicate with all its limitations.

Methed : As for complex subject.
exbrese 1.
Solect the simple subject and simple predicate of each sentence - in the last groun; also the complex subject and complex predicate. exerctse II.
Write ten sentences containing complex subject and complex predicate. Underline the complex subject with ono line, the simple subject inith two. Place a parenthesis about the complex predicate, and undertino the simple predicate with one line.
(No attention has been given to punctuation in this series of articles, because the writer believes in teaching the main points in a series of dictation exereises preceding grammar. As the dictition is continued for some years, the more complicated cases can be taught after the pupil has acquired some knowledge of grammar.) expresse 1 in.
From the following lists selec, a simple subject with an appropriate simple predicate. Add limitations to each to make a complex subject and complex predicate. Thus: "Maple does shed. Expanded: "The maplo does not shed its leaves an ono tem. pestuous scarlet rain."

1. Bell.
2. Arn fragrant.
3. Flowers.
4. Breathe.
5. Fishes.
6. Gather.
7. Clouds.
8. Are strongest.
b. Rings.
-New England Journal of Edtucation.

## EDincational gites amb grims.

Mr. D. J. Beaton, of the Winnipeg Tines, formerly head master of Stayner Fublic School, is one of the obsurvers on the Alert, which left Halifax the other day on the Hudson Bay expedition.

The Shelburne Free Press says that out of 79 teachers engaged in the County of Dufferin lust year, 27 only have had a Normal School training.

Long neglected Alaska has at last oble ned recugnition in respect to education, in the appointiment of Dr. Sheldon Jacksons as United States General of Edication in that territury. The needs of such an age at are very pressing, the opportunities for his services are opening on all hands, and the selection of Dr. Jackson, so long identified with the leat interests of the people in the far Northwest, is the wisest possible. The Journal rejoices in the approach of a better day for the peo, le of Alaska, through the elevating influence of the school, the church, and the Christian home. -N. $E$. Journal of Ed.

The free-book question in the Onio legislature has received a quietus, at least for a time The bill which proposed to authorize the Oleveland Board of Euucation to supply all the pupils in the public schools of that city with books at public exnense, came to a vote in the House, March 12, and was defeated by a vote of 21 ayes and 42 nays. We sincenely hope that overy bill ponding which lias for its object the preparation of school text-books by the state, or the supplying of books to pupils in any oiher way than through the regular legitimate channels of trade, will meot a like fate. Ohio Lducational Monthly.

On hand-at the Stationer's, Esterbrook's popular pens in every variety of size, shape, style, and of superior quality. Hie.the to the stritioner's.

Wo are sorry to learn that Mr. H. Kny Coleman, Head Mastor of the Peterboro' Public Schools, has been suffering severe anfiction, his youngest child hatving recently died, and Mrs. Coleman having been very ill for some time past.
Farb Breakeasts fon School. Chmphen. - At Wolverhampton it is found that pwing to the depressed condition of trade and the great distress among the operatives, over 400 children are regularly gent to school without foud. Last Tuesday a series of free breakfista were commenced in the two principal schools at the cast ond of tho tuwn to about 300 hungry childron. -S:/hool Guardian.
When classics shall bo cultivated no more on tho banks of the Isis, and the sludy of mathematics has ceased to find its closen home on those on the Cam, the foundations of the certh will indeed seom to be out of course. The catastrophe is perhaps not so distant as may be imagined. Whatever is to happen at Cambridgo, it is a finct that classics have been saved this reeuk at Oxford by a matjority of one only in a congregation of 143 mombers. The formal proposal before the House was that classical exumination at Moderation should be dispensed with in the case of candidates for honours in mathematics and natural scionce. The effect, however, of tino proposed statute would havo been to eliminato classical studies from the University course of candidates for honours generally, and it was with a clear apprehension of this consequence ibet the subject was discussed on both sides.-The Schoolmaster.
One of the commissioners of the Board of Education of the city of New York lots out the startling fact that there are now twe cityfive thousand children in that city for whom there are no school accommodistions; that the mayor is opyosed to going to the Legislature for the power to raise money ; and that from 1877 to 1882 the Board of Education did not receive enough money to care for more than one-querter of the natural increaso of the city school population. What with sectarian bigotry, political deviltry, and hightoned indifference, there is good reason to believo that the standing army of-barbarism in our metropolis is to be constantly re-enforced from the ranks of youthful jgnorance; so that there sha'i always be a mighty host avaiting the leadership of any demagogue. No city has within itself more hopeful tendencies than New York, and the boast of her madniticence is heard throughout the earth. But, meanwhile, undor tho very centre of hor.glory is being packed a deposit of human dynamito whose oxplosion mas wake up her most cenceited magnate to a sense of the wrath to come. What is true of New York is measurably true of many of our great cit 33 , and the way to meet and dispose of this threatening peril is a matter demanding the best thought of the time. - N. E. Jutrnal of Ed:

## 

A. W. Gould, it. The Current of May 30, discusses "History in Words," and shows, taking the word "animal" as an example, how woll history may bo understoed by the assistance of philology.

Mr. W. D. Howolls is ougaged upon a now serial story for thie Century macrazine, to follow "The Rise of Silas Laphan," which will be finisied in the August number.

Charles Scribner's Sons, New Y̌ork City, have published "Assyriology, its Use nad Abuse in Old Testament Study;" by Francis Brown, professor of Biblical Philology in the- Union Theological Seminary, New York City ; price \$1.00.

Messrs. Funk \& Wagnalls, of New York, are about publishing a book by Dr. Schait, under the titlo "Ihe Oldest Church. Misnual,". called "Teaching of the Apostles," with illustrations and fac-sinite of the Jerusalom MI.S., and cognate documonts, with full atiscussion on the subject. This vill be tho latest and fullest work on this remarkablo book recently discovered by Bryennios, the-metropolitan of Nicomedia.

Ginn, Heath \& Co., Boston and Now York, have just added to their "Classics far Children" the "Tales of Slakespenie," by Charles and Mary Lamb; cdited for use in schools ; price 40 cente.
A. S. Barnes \& Co., Nem Yurk, havo published avery handsome edition of Vighl, contaimny the first six books of the "Eneid;" by Edward Gearing, A. II., and the "Bucolics nad Georgios," by Henry Clark Johnson, A.M., LL. B. Wo shall revew the work in $\varepsilon$ future number.

It is announced that Tennyson is writing a sequel to his drama of "Béciet."

The "Contury Magazine" is now' issued in New York on the
first day of each month, aud secures copyrıght in England by appearing there a day or two earlier.

General Gordon's diarnes are shortly to be publaghed simultaneously by Messra Kegan, Patul \& Co., of London, and Houghton, Mifin \& Cu., of Bustum.

The tirst volume of Ruskin's Aute:biography will appear in june.

## stidiscellatcous.

## LAKE MISTASSINI.-Gontinned.

Like the country on the Sagueuay, the Mistassini region is, of course, a wooded region, the great sub-Aretic forest still extending far to the northward; but, as far as my observations camble no to speak on the subject, I would not call it a lumbering region. The prevailinf tree is the canoe birch, or boulcat, which grows fully as Jarge as around Lake St. John. There is also an abundance of tamarac, poplar, balsam, and spruce, ranging from seven, cight, and nine isches to twenty-two inches in diameter, jut the smallergizes largoly predominating. I saw no pine, but I was tuld that largo areas, probably of the Banksian pine, wero to be met with to the north-westward. As to the soil, it seemed to me to be similar to that on the Big Peribonca River from Lake St. Joln upward for sbout trelve miles, and well suited for agricultural purposes. I saw rery large tracts of this characteralong and about Great Mistassini. whech would be sufficient to form dozens of parishes. But should the main expedition not find the climate snited to successful on ciculturo and to the location hereafter of a numerous and comfortable population, I am convinced that the Mistassini region, which seems to me to rest on a limeston oformation, will prove exceedingly rich in coonomic mincrals.

Now, to resume the thread of my narrative at the point where I digressed from it, on our arrival at Mistassini Post on the 10 th of September, I diecharged my remaining men, soven in number ; and, While they returned to Lake St. John by the wisy we had come up, $I$, with the guide and one man, trevelled toward Lake Temiscami to meot the main expedition, as that was one of the most practical soutes by which it could first strike Little Mistassini. I should mention, however, that bofore starting I endeavored to collect from Mr. Miller, his assistants, and tho local Indians any information thoy might possess as to the acal siro and shape of Great Mistassini : but I itteriy failed to obtain anything satisfactory. In point of fact, they were absolutely ignorant as to the extent and configuration of this great mysterious inland sea, knowing little or nothing about it, except the portion in the ueighburhood of the Post, and the ruute to befollowed to reach Rupert Houso on James 13ay ria the Rupert Rivor. Thoy were convinced, luwerer, that the lake was of immense dize, buteculd not give even an approximate idea on the subjoct. But they mentionod as curious facts suggestire of the vast extent of this unknown shoct of witer that, fraquently in a perfect calm, the turbalence of jis rasces would give notice from twelve to fourbeen hours of approaching sturms, which I believe is the case also with Lake Superive; and that, during the spring ireshets, when the level of Little Mistassini would rise rom six and one-half to seren feet, Great Mistassini never riscs more than as many inches.
In making for Temiscmani, I navigated Great Mistassini for ono hundred and twenty miles from Foam Bay, where I struck it first. As far as passiblo we hugged the southern shore, and consequently had no oppartunity of secing the big rock from which the lake is said to take ita Indian name, and which, I understand, lics along the northern coast. thethe aforesaid distsuce of one hundred and twenty miles, I dn not beliave swe had yet resched what inight bo termed the main body of the great lake. At all events, it seemed to go on con-
stantly enlarging its width, with nothing visible ahead but sky and water. We passed a number of islands, some of them very beautiful. On one of these, to which we wero ubliged to run for shelter, wo were storm-bound for soveral days, during which the waves ran so high that it was impossible for any craft like a canoe to live out. I also noticed that the waters of Great Mistassini are exceedingly doep as a rule, ite basm seening tor sink abruptly from its coast-lint, though the latter is low-lying, gradually sioping down to the lake. They offer, two, quite a contrast to those of Lake St. John, being renarkably clear and limpid.
After proceeding one hundred and twenty miles on the great lake, we retraced our route for sixty miles, as it occurred to me that there was another route which the main expedition in coming up might possibly follow. We then effected a crossing to Littlo Lake Mistassini, a distance of some six miles, by portages and four small lakes, and navigated it for some eighty miles toward its head. The general trend of the smaller lake seems to be the same as that of the great lake, with which it runs parallel from south-west to northcast. About thirty-five miles from its head, tho Rupert, coming from the north-eastward, enters it, flowing out of it again on the opposite, or northern, side into Great Mistassini. In fact, both Great and Little Mistassini seems to be expansions of the Rupert, just as the great lakes of the West are expansions of the St. Liwrence. The outlet from the smaller into the larger lake is not more than one and one-fourth miles long, but very much broken by rapids. Little Mistassini is supposed to be at least ono hundred miles long; but, if I saw its greatest width, it is not more than six miles broad at its broadest point. Along the north shore, which I coasted, islands are very numerous. The banks are generally low, and in most places composed of solid limestone, forming a sort of natural wharf, with numerous fissures, varying in width from one and one-half to ten inches. The southern shores present an agrecablo appearance from the north, the lond coming down to the water's edge 1 a a gradual slope, and being also splendidly wooded. Where I struck them, near the head, I found ihem sandy.
Wo did not run up the Rupert from İittlo Mistassini, but struck the river higher up by a portago of about tro and one-half miles. We then foliowed the Rupert toward the east for some twentv-fivo miles, and found it a large and noble atream. Leaving the Ruport. we reached Temiscami Lake on the 23rd of September, when we encountered the first hard frost of the season and a snowfall of onehalf an inch. Wealso found therea deserted Hudson Bay Cumpany post, built of squared spruce loys; but, although the structure looked old, it seemed still good. Wo discorered, howerer, no traces of the main expedition. Novertheless, wo did not akandon hope of neeting it; and, though the region in which we then were was a wild one and periectly unknown to us, we managed to extricate ourselves very creditably by pushing on through the portages and lakter till werecrosed the Height of Land and struck a gowd-sized lake, by whose discharge we struck the Shipsaw River, which is a tributary of Lake St. John. In so doing we circled around the head-waters of the Aux Foins, Luttle Pariboncas, and Mistiseini rivers, thus further verifying the fact that the latter stream is a mere feeder of the Saguenay and has no connection whaterer with tho great lakes of the same name in Rupert's Laud. I have no doubt that the true reason why this strcam was orjginally called Mistasoini was not from sny fancied communication existing betwenn it and sither Great or Littlo MListassini Lake, but because it has been use. from time im. memorial by the local Indians as their princina! routo to and from the Mistassini region.
Fullowing the Shipsam, and ant short distances falling into somo beamtiful lakes rarging in sizo from three and one-half to fifteen miles in length, wo noticed that the provailing character of the soil
on the banks was alluvial and evidentiy grod, supporting a growth of black spruce, buuleau, alders, etc. The first lake above Lake Shipsaw was found nutell urthy, nut only on account of ats magmificence as a sheet of water, but also for the veneration which the local Indians seems to entertain for it. It $2 s$ about eught miles long and three and whe half mules bruad. At ats outlet there as a native burial place, while all ariund its ehores the traces of old Indaan camping places are still visible, sume of them very old indeed, while irom the trees depend in various ways, in conformity with the aboriginal superstitions, such offerings to the manes of the dead as the skulls of bears, beaver, otter, caribou, horns, etc.; many of thegraves being inclosed with strong pickets and decorated with smaller spoils of wild animals, as well as with articles of clothong belonging to the deceased, their canoes and paddes, tobacco and matches wrapped in bark, moccasins, and such like. The Shipsaw River, which flows into the Great Paribonca, is a very large and noble stream, with few rapids or falls. Indeed, the only dangerous or troublesome section of this river is what is called Les Crans Serres, which as a continuous send dangerous rapid of some twenty miles in length. At this puint we had to abandon the main river and to follow a chain of portages and lakes, by which detour we were enabled to reach another river, which finally brought us back to the Shipgaw below Les Crans Serris. About six miles further we entered the Large Pariboncas, flowing into Lake St. John, where, after about 1,900 miles of canveing, wo roached back safely on the 10th of Octuber, and were again kindly received and hospitably treated by Mr. Cummins, whose name has been thankfully referred to in the firat part of my present report.

In the remainder of the journoy back to Quebec the Geographical Society is not interested: so that here :rould probably bo the proper placo to cut shust my somewhat lengthy uarrative. Still, as I suspect that your respectful body may be curious to. learn iny ownimpression as to the probable size of Great Lako Mistassini, over which so much mystery still hangs, I should, perhaps, add that one very clear morning, while on Little Mistassini, and when about thirly-five miles from its head, we caught glimpses away in the distance of a high range of mountain-peaks to the east, which range seened to have a gencral direction from south to north, and which, if continued for ally great distanco northward, must cut directly across tho geneme trend of Great Mistassini. Of course, I do not pretend that this is the caso, but if it prove to be so, my conjecture is that the great lake will be found to extend to the base of this range and probally to run up for a considerable distanco along it with a much enlarged breadih. At one luyndred and trenty miles from the south-westerly extremity of Great Mistrssini we could not percecive theso mountains. We orily did so, as already stated, at abut thirty-five miles from the north-cesterly end of Little Mistassini, which runs parallel with tho great lake, and then, as far as we could judge, they seemed to bo fully ono hundred and twenty miles distant from us. I readily recognized them from their lofty, bare, bleachod granito summite, as the Otish Mountains, which, in 1877, as my father's assistant, I crossed in scaling and exploring the Outarde and Bersimis rivers to ascertain the distance to the Height of Land, to verify which wo had to find tho waters flowing into James or Hudson Bay, selecting the East Main River for the purpose.

Tho following extract from my father's official report to the Honorable the Commisnioner of Crown Lands, on the occasion, will bo found specially interesting under the circumatances:
"The Otish Mountains, which form the Height of Land, are here baro, rocky, and desolato; we ascended them and found tho hoight to be 1,300 fect abore tho pass and 3,700 fect above the scm. Wo Fcro disappointed in having a view from the top, as we wero in tho cluuds. At their base to the north is a small latie, the head of ono
of the branches of Rupert's Rivor, and at about thirty miles is the Budson Bay Post 'Nitsequan,' on Rupert's River. Thus post is supplied from Hudson llay, and is freqsunted by about thirty families of Nascapee Indans."
To the foregoing may be added, that where we struck them in 1877, the Otish Mountains are in latitudo $52^{\prime} 20^{\prime}$, and that we found them so steep that, to ascend them, we had to cut steps in the hard snow and ice.
I have omitted to note that, on our return from Mistassini to Lake St. Join, we were disappointed in our hopes of meeting the main expedition ; but, since my arrival back in Quebec, I have received letters which show that on the 12th of October it had reached Great Lake Manouan. Consequently, it must have arrived and begun work at Great Mistassini long before this.
In conclusion, I have ouly to add my orn impression,-for what it is worth, of course, only, -that the main expedition will find the great unknown lake to be long and relativoly narrow; in other words, that it fills a decp, clongated trough, indented with bays. But, until the return of that expedition, it would be idle to indulge in speculations as to the real size and shape of this mysterious inland sea.

Francis H. Buasili

## Qucstion 8 graber.

## I. QUESTION.

Distinguish "Lrong toln" and "Short ton" as used in first set of competition problems.

## 11. ARSKERS.

W. S. H. in Jodryaz of May 7th.-A "Standard" is a term used in mensuring lumber and equals 12 board feet, or an inch board one foot wide. and 12 fees lons.
W. M., Journal oí April 2.-"Grammar" questions of April 2nd.
(1) : Sentence should correctly read:-"Your tongue is too busy," and "Yuur"=a pronoun in possessive case.
But "of yours" =a treble possessive implied in combined use of "of," "I" and " 8 " $=$ of you, your, snd yours (double), formerly writteu "your's." But "yours" has an objective use (here) representing some name or substitute understood as well as a possessive use ; hence objective caso governed by the preposition "of" a rolational word between "tonguo" and "yours."
(2). "Ours" is explained similarly, only it has a subjective use, hence subjective case as well as denoting possession, and therefore represents the subject of the verb of incomplete predication "is," This cxample clearly explains the foregoing one (i. e.) "ours"= our school. Hence the dependent clause in full "our school is largo" preceded by "than" a subordinate.connective word.
(3). "As a teacher" $=$ an adverbial phrase, introduced by the adverbial conjunction "ns," "teacher" $=$ subjective or nominative caso with predicate understond. It is mocified by the article "a."
Note-We see that a word is not necessarily any particular part of speech as it depends eutirely upon its use in a proposition.
Answers to Grammar questions in Jovrnal of April 9th.
(1). "Tremble" is direch and "ground" secondary object of "felt."
(2). "Free" $=$ direct, and " hini" $=$ secondary objects of " saw."
(3). "Honest" $=$ complement of "found" (secondary), or direct of "to be."
(4). "Dying" = complement of " iound" (secondery), or direct of "to be" "man" and "child" are secondary objects, and to be modified by complements "honcst" and "dying"=direct of verb " found."
(5.). The last two seem to bo closely connected with the objects. In fact all are attributive to some extent. Would like to hear from other upon this question.

## C. S. Eganton.

P. S.-Nos 3 and 4. Theso two words hare a. similar office: an objective complement rith an active rerb becomes subjective with prasive. Thus, We found tho man honent= Wo found the man to bo honest=We found honesty in the man (Active)=The man was found houest=The man was iound to be honest=Honesty wat found in tho manı. (Pasiive.)
[Wa give Mr. Eggleton's nmasers as he sends them, in order to elicit further discussion. Wo fancy soveral of the last set, at leant, will bo roted not wholly satisfactury. Next ?-ED.]

## "Weachers' Åsocintions.

 place on the istin amd 10th mse., Mr. liunt, presmlent. in the ehar.
 metic," which was well prepared a m wedl teceved. Mr. Usborne ad. dressed the convention ont "Historv, its balue ant How to leach it." Mr: Ushorne disipproved of the texthonlss now an use, and also of the amomat of worle requred an it, eypechaly tor entrance examanations, ami outhued an matroluctory conse: Ma. litading ahliessed the comvention on the subject of "Wrawing.' He thonght that the system of drawing now in use an publecestivols stanted trom the wrong point, as it began wath straight lines, ware the curie was far eas:er maile, more mitural to the chhil, and more uterestang and uspfal in its appheation. "'Ihe Newspaper m School' was treated hy Mr. H. A. Joter. Jhe speaker alrocated che use of daty mapers by the teachers, and reading of select portions to pupals. Mr. Usborne and Mr. Ilatt both approved of the sulistatution of papens to so:ne extent fur reading hooks. Mr. S. 13. Wilson read a carefully written essay on " Methods of Instraction." Mr. Healing dwelt whth the suluject of "Perspectwe m Drawng." Mesars. Duson, Maray, and others discussed the subject of exincitional jouruals, warmly recommendmg every teacner to tatie some Ine jourmal. Ur. Neleallan given an execllent omine lessina on the methon of teach. ius grammar an schools. A dischonom wia matrondaced by Mr. Murray, and taken part in by others, an regad to the want of reverense on the jart of the young of the preseat day. The want of reverence wats regarded as the source of many evols anongst schoul ehadren, and sereral methods were sugesested for connteractug it. Mr. Platt, Inspector, cxplained recent changes in the school law: Dr. Neloclan aghin ad. dressed the conventun, commencmg an mineresimg lectame ot * Ficmentary Mential Science." Miss Mhaigin real a well written essay on
 ance Conion of this town, proschted tu coash of the twathers present a copy of the Temperame l'rimer, ly Mr. (; D. l'hat, W.A., as a textbook to be used in schools :and to remain in the school-momes. The fol. lowng resolutinus wete passed :—Moved by Mr. (i. D). Matt. M.A., and

 schemesami report at the meat whachitua. Courani. Mucil by Mi. If Dohson, sceonded hy Miss Juli.t Gillesp". "That the th Ahers of lrince Eilward connty :onl whally welcome in system of reading on professional or ather subjects thit would form in sort of post grailuate course temaling to hirlp then an thear dhties."-Carred. Nowed hy Mr.
 real Huphus "Oitline of tiac Staty wi M.a, atal tahe up the tiast balf of the book for sliscassion at the nest cumbation." Curaied.

Engix. Hell in the Collegiate Institute. St. Ihomas, May anui and 23rd: C. R. (inane, R.A., heal mater Vienna Migh Schont. presilling. After the minates of the prevons mretang were reat, Messers. Ames and Ford were appunted aulat ins. Na. N. W. Furd, st. Thimas
 The aim ought to be the salue of the havisidge. and not to pass examinations ; the ifroum should b, markel out typh ally, the teacher oasht to teach it without a text-look, anlil have a map heiore the class for reference: pupils might write aletals of historical events in their own


 teaching calisthenie soags. The exhihtion was very ereditalse. The question, "What is the isenetit of such exercises?" was pat hy Mr. Shepherl, and in reply he was tuhl that wote colture, grace, and a re

 Hughes' "1 1rill ani Calistheniss" as an aill to the zeacher. Miss Hatic Kohiuson gave an ohject leasnu on "cork" in it thirl clase, which uras hoth interesibng and instractive. Linis lesson was one of it series given by Misy Rohinson m her clasa at the schaol. line first exercise m the alternon was an estay hy Miss MeCanslawi, of Aylmer, on " I. an: guage Lessons. Tine thene dueit chedty on womposition, general de. fects, and their reme fy. The esan ists abevinuma lal the plat of pupils writing down all the gramnatical crrors th $\leq$ dicard, for the purpose of

 so practical and simit. Mr. W. . lihin, I. $1^{\circ}$.S., aubc sume unstructions and explanations respeciug ferankimal reporte, and refericel to the freos clases at the Schosl of Art. Toronto, durnge vacation. Mr. Leitch, treasurer, read his report, which showed a balanes of $\mathbf{S 6 l} .05$ on hand. Mr. T. Hammond, of Aylmer, cxemplafich his method of teachug litera. ture to a fourth class for entrance to high schonly, anil wrote on the blackboand as sample set of questions. He wonld mot huricn the propils with amalysis and other collateral mathr until the y were thoroughly interestel in the subject. Sum very fracinal ndeas were clicitel in the uascussun by reararhs irum J. Millis, IB...l., pimupal of St. Thomas C.I., anil Mr. Meloant, city school Inspector, the latte lreing of opinion
that language lessons and the folniation of literature and deserve the greatest attention. Children fiequeaty finl $t$, expicss their thoughts correctly lecanise they aim at using the limgatge of the text-books or the teacher. They shouhl be gulded to usi: their own simpler worls. The reneral disenssion was animutel, an I Mr. Mramond was frequently called on to explaiu, which he did very satisfaciorily. In the evening a very large andience assembled in the lesture-room of Knov charch, anl wert enterinined by realings, recitatinns, and music. Allimesses ware given by Mi: Crothers and Rax. Mr. Fraser oa the progress of edacation. 'lue president, Mr. C. R. Ganne, oceupied the chair. Nexe day, Mr. Gunne took up "Othuepy." and gave the correst prounntiation of se:eral important names, English ant foreign. Mr. W. Atkin, I.P.S., followed in an excellent and logical address, giving his views on toiching numbers to a primary cliss. H: contendeal that figures should not be taught until children had ideas of numbers, which should be indicated by objects. The decimal system ought to bs taught in the same manner, also "carrying" in ahlition and the plan of "borrowing" in sabtraction. A lengthy and lively discussion followed, participatel in"by Messrs. Hammond, Ford, N. M. Camphell, Miller. B.A. Ames, and Misses Watts aud McCauslanh. Mr. Simpzon, B.A., of Viennt, gave an excellent adllress on "The Eigglish Language," showing its difficulty to foreigners through the variety of cominimations of letters required in different words to express the sman son al. He anlvosated phonetic spellius, and showed that in most instances the plilology of the lauguage would b: preservel thereloy. A diseussion arose absat the promotion examiantions for the county, and it was ultimately decidei to continue then if the expense were lione by the County Council. After a short address on "Drawing," givea by Mr, Resuing, the convention adjournci.

## Citerarg Rebicto.

Lecters. Notes on the Metals, by Johin T. Stoddard, Ph. D. (Harris, Ilogers d: Co., Boston, 1835.) This is a hindy little text.book, of 130 pages, on the chemistry of the metals, being the subitance of the lectures of the professor of chemistry in Smith's College, M.ssiachussets. It is just such a brob av will cuable students in arto or medicine to dispense with the man-
 healnars. (1) nccurrence, (2) preparation, (3) properties, (4) uses, and (5) hatary. Its noore unportzut compounds are thentaken up, under similar inexdings. Where it is fussible to do so. Finally, there is a brief note on the usath methents of defecting the clenent, and determining its quantity in a सisen compnatha. In short, the bowk in a mere synopsis of any one of the thent andern treatisio on the chematry of the metals. The frame-work of tise suliject is given with almoit perfect symmetry, but the superstructure canot be completed without much lalor on the put of an experienced teacher. Of chirfe, thero are n's notes nor detuils of experiments; no list of ayparatus required, and juc illnstrations 'of any kind. Tho book is not, therefore, a food une for stadents trying to red chemistry without $a$ ienubior, buw, as we hzse alresily huted, it wall, no doubt, lue fonnd serviceathe $u$ undergradutes and oflacrs atteming; $a$ coarse of lectures on chemistry for tinc first time.

St. Nichus.ss for June is to inand with its ususl entertsining and in,
 and sheicht, and alliatratom can to hapt up with.such pereausal freshuess aml vigor.
 Gernanac Pumblogy, Comvercity of Tiibiugen, translated hy Albert S. Cook, 1'n.1). venag, I'rulesior of the En; lish Langinage and Literatare, University of Califorma. (Boston: Ginn, Heath Ce Co.) The study of Old Eng. lish now oscupea a lealung place on the carricnlt of the great European universitics, aud year by year finds an increasing number of smerican stadents tsking the O. F. cenrse under Ten Bruik, Zupitza, or other dis:nneralied phalthigers. The existence of special obstacles, not necessary to be here chameraterl, makes an exposition of the grammar of O. E. con fesvedly difficulc. yet has seal progress lass been made in thas direction, the surk sefore us affurds ample evilence. The Gratnmar is evidantuy the reviti uf onde and careful rescarch. The pronunciation of the 0. E. alpha bet iotrcated very fally, the manumerable pecaliaritics of O. E orthography are accannied for in one dialect hy showing what their equiralents are ins other dialects: and thu< hy an claborate comparison of dialectic orthorixiph ical peculiaritics the pronunciation of all is arrived at . The chief ditnculties are to be encountered in this part of the work, and it need surprise no one to find that varione concinsiona are roached in somo instinces by differcn: anvestigaurs. What tuo O. E. anficcorical nystem was can be weertaned with anure certanify, and Prof. Sicvers' treatment of it loa res littio u) tre devired. On the whole, the (rya:nusar math prove an invaluable aid to thuse who winh to make a thonung stady of $O$. E. Jiteralure, and even to thove who dearo to asecrtan tho most ordinary facts of philoingy it will prove hoth hulpiful and interesting

