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# The Canada School Journal. AND WEEKLY REVIEW. 

Vol. X.
TORON'TO. MARCH 5, 1885.
No 9.

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The Canada School Journal and Weekly Review.

Edited by J. E, WELLS, M.A. and a staff of competent [rovinctal editors.

An Eilucational Journal devoted to the adomeement of Literalure, Science, and the teachiny prafiession in Canaila.

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## The eforlo.

On Saturday, the $215 t$ inst., the Washuggton monument which has been thirty-seren sears in progress, or rather whach was begun thites seren jears ago, was dedeated at the capital of the United States. This monument is 555 feet high, the highest work of man. It would tower 100 feet above the highest of the pyramids. It is an obelisk of pure whte marble, fitty-five feet syuare at the base, that base restung on the exact spot chusen by Washngton hunself for a monument to commemorate the revolutionary war.

There seens good reason so far for huping that Mr. Cleveland will prove equal to the occasion and manfully withstand the torrent of corrupt influence that pours down frum every quarter of the political heavens upon the deruted head of every president elect. His choice of a cabinet, so fax as known, seems to indicate that he has chosen men of the highest chararter as well as ability, and his prisate utterances upon the burning question of the silver coinage are said to indicate that he will be sound and firm in shielding the republic from the great danger of a depreciated currencs.

Lieutenaut Gordon, who had charge of the corps of observation, despatched last summer to Hudson's Bayand straits, suggests that the rich fisheries of the Bay, which have been worked chiefly by the Americans for twenty years past, belong properly to Canada, and might be used with effect as a make weight in new treaty negothations with our cousins. The Week scouts this idea, if based upon the claim that Hudson's Bay can be treated as a close sea, and thinks the riparian rights of the owners of the shore will not be recogmzed by other nations bejond the three mile limit, and cannot restrict their right to fish in the deep waters.

The construction of the proposed railway from Suakim on the Red Sea to Berber on the Nile, will mark an era in the history of the dark continent. Its primary object is of course purely military, but as it is to lee built and worked by a company, it will, no doubt, have a commercial as well as military significance. A step of this kind once taken is seldom re:racted. The immediate effect of the road will be to annihilate the toils and perils of the desert march and to bring the Nile within easy reach of the sea coast. But who can fix a limit to the far reaching results such an opening up of internal communication may have upon the destinies of the equatorial world?

Students of Geography will in these times have much to do to curreat their maps so as to keep pace with the political changes that are going on in the world. The Congo conference, the Wolseley expedition, the French movement in Tonquin, the Russian advance on the borders of Afghanistan, and the colonizing operations being carried on by Germany, France and Italy will naturally modify the political face of the various sections of the eastern world in which they are taking place. On this continent the presidential negotiations cane near to drawing a stripe of a new colour across the Isthmus of Panama, while cuen in Canada the boundary lines of the great Province of Ontario cannot yet be definitely drawn even by the lawsers.

A resolution has been offered in the Nova Scotia Legislature looking to a popular vote on the question of secession. On the suggestion of the premier it lies on the battle pending the answer of the Dominion Government to the demand for better terms. British Columbia at the other extreme has re-enacted its Anti-Chinese bill in face of the veto at Ottawa and signified its resolution to enforce it. Manitoba is talking loudly about " looking to Washington." Every truc Canadian will regret the growing discontent in all the provinces. The outlook it must be confessed is cloudy. It is evident that things cannot long go on in this way and the sooner some means of re-adjustung the terms of confederation on broad principles is found the better for our future prospects. It would be a calamity were these omens all disregarded until some province has taken an irrevocable step.
"Take care of your eyesight," was the advice of Mgr. Capel during his visit to the United States. He was much pleased with the abounding newspapers and schools, but thought that the small type so much used in the former was dangerous to the national eyesight, and that the arranyement of the schooidesks was often very trying to the eyes of the children. He thinks that the newspapers should use larger type, and that the upper surface of the desks should be arranged at such an angle that the rays of light would fall vertically from them upon the eye, so as neither to atrain that organ nor neccessitate bending the qpinal column. Both points are well taken, and the import. ance of preserving the eyesight of both school raidren and newspaper readere, that is, of the whole people, cannot be over estimated.

According to the Southern Trade Gazelte two additions have been recently made to the ever lengthening list of the economic uses of paper pulp. One is its manufacture, under compression, into very delicate watch wheels, which are e ad te be unaffected by variations in temperature The other inven tion meeta a still more imperative want. At the Health Exhibition paper water filters are shown connected directly with the main. the water passing through a dise of thick paper, made of pure vegetable pulp, with which is incorporated a cer tain proportion of animal charcoal deprived of phosphates. We were about to suggest that the inventor might find a hope ful field for the sale of the patent filter in connection with the water works system of Toronto, but the question arises how in that case the lively little fishes and sporive animalcules of various kinds could get through. Thrugh not connected with the S. P C. A., we are opposed to every form of heartlessness, and therefore withhold the serommendation.

The report of the Canadian Commission on the British Columbia Chinese question has been presented. This document is too lengthy for a synopsis or review in our columns, but the subject is one of great interest, and involves principles which should be studied by cerery intelligent citizen, and certainly by every teacher. The Commissioncrs seem to favour a middle course between the absolute exclusion for which a large minority are clame uring so hotly, and the absoiute Ireedom favoured by those who think that the matter will regulate itself under the ordinary law of supply and demand. The exaggerated reports circulated so freels in regard to the immorality and degradation of the Chinese, are not sustained by evidence, though some special sanitary and police regulations may be deemed advisable. They have been of great service to the country in furnishing labour for railway building in quantity, and at rates which alone have rendered it possible. In view of the way in which Britsh commerce and the infamous opium traffic have been forced upon China, international good tatti, as well as all sound commercial and economical principles seem to forbid their exclusion from British territories.

The biography or, as it might almost be termed autobiography of George Eliot, which has been given to the world by her husband, Mr. Cross, is being cagerly criticised on all hands.

It consists almost exclusively of extracts from letters written from time to time by herself. Two points seem to astonish nearly all the critics. One is the inferiority of the letters in point of ability to the published works of the gifted authoress. They are in the main voted decidedly common-place, with the exception of a gem which sparkles here and there. The other disappointment is the apparent absence of depth and intensity of feeling. Those who knew, or thought they knew, something of George Eliot's personal history were prepared to find evidences of fierce and bitter confict to mark the stages of faith and unfaith in her career. They expected to hear the outcries. of a fervent soul crying out from the depths of anguish. Instead of this, so far as anything in her published letters indicates, she seems to have put off her religious belief as complacently as she would throw aside a worn out glove. But, of course, the critics do not know, and may probably never know, what the biographer may have suppressed.

The fact that Sir Stafford Northcote'g vote of censure ot the Gladstune ministry was defeated by the narrow majority of 14 makes it prubable that the present administration is approaching the close of its career. That career has been one of the most remarkable in British history, and will well repay the study of every thoughtful reader, no matter to which side his sympathies may incline him. It is not simply that Mr. Gladstone is one of the most remarkable men, and one of the most powerful orators that the empire has ever producec. It is not that his personal history has been remarkable for consistent incunsistency, if we may use the expression in respect to the cunstant and gradual change of opinons which has carried lim frum the camp of Toryism to the headslup of the great Liberal party. It is not simply that his whole career is marked by a series of great Legislative changes, each one of which has carried the nation farther and farther away from its old landmarks in the direction of liberalism and democracy. Over and above all this stands out the fact that the polley of the Govcrnment has from first to last been based on professedly new principles, that moral constderations have been given a prominence in Guvermment never before accorded to them, that professedly at least, and most persons will admit with sincerity of purpose, he has aimed at building up the interests of the nation at home and abroad, on the broad foundations of right. Opinions will vary as to the success of the attempt, but the Kingdom of Great Britain and Ireland can never be agan what it was before Gladstone arose. It must henceforth move on a higher or a lower plane.

At a college examination a professor asked: "Docs my question embarrass you ?" "Not at all, sir," rephed the student. "Not at all. It is quite clear. It is the answer that bothers me."
Sclool committee (examining scholazs): "Where is tho nortly polo?" "I don't know, sir." "Don't know \& Are you not ashamed that you don't know where the north pole is?" "Why, sir, if Sir Jolin Franhlin, and Dr. Kine, and Captain De.Long couldn't find it, how should I know where it-is ?"
A widorr, intending to succeed her husband in tho management of a hotel, alvertised that "the hotel will be kept by the widow ot the former landlord, Mr. Brown, who died last summer on a new and improved plan."

## The School.

The Secretaries of the 'Ieachers' Institutes would confer a favour on us as well as materially aid the objects of the Associations by sending us :ondensed reports of the most important exercises at the amnual meetings.

The Rev. Dr. James Martineau has sigulied his wish to reture. from the chair of Ethics and Apologetics, in Manchester New College, London, at Michạelmas next, after forty-five years of active service. Dr. Martuneau, who is now in his etghtteth year, has been Principal of tae College since 1857. In view of his grea: ability, and the song and distunguished service he has given the College, tne trustees are desirous that he shall still retain the Honoraly Headship of the Institution.

The authorities of the Fresbyterian College, Montreal, have made an excellent move in establishing a course of Sunday afternoon lectures on "Questions of the JJay," in the David Morrice Hall. The Montreal correspondent of the Canada Presbyterian says that these leciures, which are delivered by professors, and eminent ministers and laymen of different denominations, attract large and appreciative audiences. It is not creditable to the various colleges in Turonto that they are, so far as we know, doing nothing to awaken thought and influence public opinion in regard to the great moral and religious questions of the day.

Much stress, but by no means too much, is being laid upon the necessity of teaching the rising generation to read and appreciate English literature. Amongst the various means that may be used to this end with good effect, the practice of requiring pupils to memorize selections in prose and poctry for the Friday afternoon recitations, which we hope are kept up in all the schools, is one of the best. Great care should be used in the selection of gems of thought and expression, and in seeing that the meaning is clearly understood and interpreted, and the memorizing accurate. Few exe-cises have more educational value. The memory is trained, the art of reading ot speaking effectively is taught, and both the literary taste and the thinking powers of the pupil are improved by the study of good models.

A Nova Srotia correspondent complains, not without some ground, that the School Journal gives a disproportionate amount of its space to Ontario school matters. We have large numbers of subscribers in the Maritime provinces and are very anxious to do them ample justice, but it is sometimes difficult to do so. We trust our regular correspondents will not fail to keep us pnsted in all educational matters, but we also cordially invite communications and news items from all subscribers. We should be particularly glad 100 if some of the Inspectors and teachers would send us from time to time examination papers on public school subjects, and anything else of educational interest. It is our aim to make the Journal just as use. ful to teachers in British Columbia and Prince Edward Isiand 25 to those in Ontario.

Is your schoolroom well ventilated? The question of recess, or no recess, is being debated with a good deal of vigour in some of the American School Journals. The question has, no doubt, two sides. But one consideration, trivial though it may at first appear, ought really to have much weight in determin. ing the result. We have not yet seen a schoolroom so well ventilated that, if occupied to a point at all near the limit of its capacity, it did not need a thorough purfication with doors and windows open at least once in the cuurse of each morning and afternoon. It is simply impossible for teacher or pupil to do good work in a full, burned-vu atmosphere. Jo the arguments in favour of recess, drawn from the rest and re-invigoration of body and brain, may then be added that drawn from the opportunity afforded for thoroughly renewing the viiiated air of the school room.

In the course of the warm discussion which is going on in the London papers occasioned by the whipping of two girls in the Frampton Cotterell School, Mrs. Rose Mary Crawshay, well-knowr for her philanthropic efforts on behalf of the poor, suggests that the stick could be safely banished from the public schools if a system of rewards were substituted, and suggests that the reward should take the form of some kind of extra food, and offers to contribute $\mathcal{L} 5$ a year towards a fund for the purpose. To this suggestion a dean of the Episcopal Church replies.-"A child seduced into obedience by the hopes of a good stomach-full is not muving on a higher plane than another child kept in the path of rectitude by the dread of a whipping administered supra dorsum uudum." To this dictum we decidedly demur, especially in the case of ill-fed children. Would the dean cuntend that the labourer whogives a fair day's work for a fair day's pay is not moving on a higher plane than the negro forced into activity by the siave-drıver's lash?

One of the arguments strongly urged by the Eastern Ontario deputation in the interview with the Minister of Education in opposition to the scheme ci Unversity Federation, is entitled to serious consideration. This was to the effect that the removal of Queen's and other colleges to Toronto would have the result of largely lessening the number of those who would be able to obtain a University education. It is certaiuly of the first importance that the advantages of a college course should be brought witinin the reach of the largest possible number. If it can be shown that centralization would have the effect of putting a college course beyond the reach of many farmers' sons and others who would otherwise be able to attend the local institution, the fact would constitute a very weighty, if not wholly conclusive, argument against federation. It is quite certain that large numbers of young men attend the denomnational Colleges who would never come up to Ioronto to attend the Prowncial University, but it may be questioned whether the fact is not the result rather of denominational than of local influences, The voluntary College, by virtue of its relations to the Denomination urion whose members it relies for support, has a thousand points of contact and attraction, such as no State institution can ever have. If this bẹ thẹ
true explanation, then the colleges being still roluntary and denominational though in Toronto, would continue to draw multitudes of students from the ranks of their sympathizers and supporters in the rural districts. The point is, however, worthy of much fuller investigation and discussion that it has yet received.

The opinions of teachers and other educationists, so far as we have deen able to learn, are strongly in favour of the course advocated by the School Journal, in reference to the passing of the Amended and Consolidated School Bill. At a special meeting of the Public School 'leachers' Association, of Ottawa, the following resolution was after full discussion, unanimously adopted:-
"That it is the opinion of the 'Teachers' Association, of the city of Ottawa, after a full discussion upon the salient points of the proposed Public School Act, that it is desirable that the Bill be held in abegance until the next session of the Legislature, in order that the opinion of teachers and others interested in educational matters throughout the Province be obtained."

Surely in view of such and so well founded expressions of opinion, the Minister will not force his Bill through the House this session. All concerned are crying out for a rest in school legislation, but such rest can be gained only by deliberate care in making the Consolidated Statute as free from objection as possible.

## THE NEW TEXT'BOOK POLICY.

There seems to be a remarkatle consensus of opinion amongst thoughtful men in regard to the policy of monopoly and bureanocracy, which the Minister of Education is striving to establish. We have jotted down some remarks which have come to our ears from vartous innluential quarters. They are worth quoting :-"Why create dificultues?" pertinently anks a prominent Government supporter in the Local House. Echo answers "Why ?" It is like "giving a man an order to saw wood," was the comment of another leading Reformer upon the system of employing various amatcurs to prepare books on special subjects under the suy. rvi-ion of the Minister himself.

There is, however, this difference to be observed in this case that whereas almost any man can saw wood tolerably well with a little practice, not one in a thousind can make a good textbook, even were he to spend a life time at it.
"Impessible! There must be some mistake," exclaimed another, when the famous one-book policy was first announced to him. He evidently had no faith either in monopoly in book making, or in the scholastic and professional infallibility of a minister. "Mr. Ross will find it much easier to do this thing now than he would f-ur ol five years hence, with 6,000 teachers to oppose him," remarked one of the most active and influential scholars and educationists in the city. But surely No! It will not take the teachers of the province four or five years to learn that-the new system is utterly bad in principle and mischie.vous in practice.

One of the worst of the many objectionable features of the new policy is the preminms it offers to questionable or corrupt transactions with publishers. Any system which brings the Head of the Department into so close relations with the bookmaking busmess, opens the duor to influences hard to resist. Mr. Ross's best frends will do well to cattion him on this score before it is too late. They need not go far affeld for warning examples. A late Superintendent of Education in New Brunswick lost his head, it is said, in conserfuence of school book difficultics. The death of the late Superintendent in Nova Scotia is attributed to trouble arising from a similar cause. It is better to avoid even the appearance of evil.

Still another asks, "Why should Mr. Ross unnecessarily haress and irritate the public and the booksellers all at once ?" And again Echo answers "Why ?"

## MORAI, TRAINING IN THE SCHOOLS.

Dr. Tasste, Principal of the Peterboro Collegiate Institute, is reported as saying, at a recent Literary Club banquet in that town, that the Cntario Educational system is now a little too materialistic, and that more moral and religious teaching is needed. In what sense the speaker used the word "materialistic" is nut quite clear. In its common acceptation, as denoting the basis of a philosophical system, it is most surely inapplicable to our public schools, as it is well known the Scriptures are and have been regularly read in the great majority, the reading being accompanied in many cases by other religious exercises. A still better guarantec of the soundness of the moral teaching is to be found in the high moral character of the great hody of the teachers, and the picty and Chistian earnestness of very many. But if, as is probabie, Dr. Tassie meant that our schuol system is purely secular, he merely stated a fact which is under existang circumstances both a necessity and a merit. While saymg this we are in full sympaty with the conviction which is no doubt at the bottom of Dr. Tassic's remarks, that there is not in the schools enough of positive training in morals. This is the great defect of purely secular schools everywhere, though we do not regard it as by any means a necessary defect. What is needed is a suitable text-book of practical Ethics, for use in all the schools. Such a treatise would need, of course, to be based on the broad foundations of Christian morality; as contained, for instance, in the two great precepts of the moral law, but it is hard to conceive of these being seriously ${ }^{\circ}$ objected to by any one. The chief am and use of the book should be, however, to train the youth of our country in the habit of moral reflection, accustoming them to think about the right and wrong as the fundamental quality of all motive and conduct. Such a text-book, simply writen and abounding with illustrations could ensily be made a most interesting study to the average pupil. Whale avoiding dogmatism and teaching each one to judge for himself what is right and what is wrong, its great end of moral training would be reached in counteracting the want of moral reflection which is far too characteristic of the young of our day; and in strengthening and developing the moral faculty by
calling it into constant exercise not only in great questions but in little matters of daily and hourly occurence. The work would be strictly educational, and so brought within the legitimate scope of public school work, inasmuch as it would formulate no dogmas, but would aim smply to strengthen and develop a faculty which is present in every child's mind, and generally easy to reach in the tenderer years, though too often it becomes sluggish in its action if not half dormant in later years, through lack of proper attention and exercise.

## Sprcial axtticles.

## nagGing

We are not quite sure whether the word that heads this article is to be found in the dictionaries, but the thing that it denotes is, in some shape or other, familiar enough to most people. Nagging assumes so many forms, and is carried on under such a wide variety of citcumstances, that to treat it exhaustively would require larger space than we have at on disposal, and a wider range of experience than we can buast of. The special form we propose to consider is sehool-nagging. Who does not remember the teacher who conld never let his class alone, who was constantly shouting out orders or smarling out reproofs, who was not content with giving a rebuke, but kept on reloukirg, who could never let by.gones be by gones, but semed to find an mexhaustible deloght in raking up past sflences to aggravate fresh ones? Who does not remember the rapid successson of cjaculations that kept ou humbing through the air--"Suith, you are taiking;" " Brown, st straight;" "Robin. son, how many times am I to speak to you i" "Tompkins, there sou are again!" "Sumpkins, what ere you doing ?" Repose there was none; even steady work there was none; the teacher doled forth his instruction in he brief atervals between one distractmo command and another ; the class tried to histen or think, as the case might be, under the same unfavourable conditons; untul, perhaps, by long habit, comanands and threats produced no more impression in their munds than the noise of the mill-stream proauces on the miller.

The naggiag teacher is, we fear, a very common species, and it may not be unprofitable to inguire into his natural history. The tendency to nayging is doubtless favored by anacrimonionstemper, by an unkindly disposition that finds a pleasure in the infiction of petty misery, and by the desiro, sometimes not culpable, but sometimes distinctly solfish, of pushing is class on, or of raising it to a very high state of discipline; but it owes its origin mainly to the teachers's incapacity. The skilful teachor never nargs. Ho prides himself on attaining his ends with the smallest number of words, and with a minimum of effort ; ho ets attention not by obtrusively asking for it, or by punishing for inattention, but by awakening interest ; he secures the activity of his puphls by giving them work that they find a delight in performing ; his elforts are directed not so much to the correction of faults as to the prevention of their occurrente; he recognizes that many of the fallts of children originate not so much in any matural defect of mind or of chamacter as in bad teaching and bad training; and he looks to himself, rather than to his puphly, when thuys go wrong. If his elass fidget, ho knows that they have been keps two long in one position, and he acts upon nature's warmang by changmg their position. If they are inattentive, ho knows that he ia shooting over thoir heade,
or that thoy aro already familiar with what he is talking about, and are too honest to affect an intorost they do not foel, or that thoy want somo change of occupation, and le adopts his courso accordingly.
The nagging teacher is almost invarinbly a bad disciplinarian. He seeks to secure the conditions of curcessful work racher by a ceasoJess drill than through ciuses opprating spontaneously in tho child's own mind ; very often eves his drill is unsuccessful through his disregard of haws of body and mind that nature will not allow to be viohted, and throngh his own want of firmuess in seoing his commands executed. The feeble disciplinarian tries to make up for hus want of skill by noiso and bluster, by constantly reiterated commands and threats, by gibes and flouts, and other such obtructive means, only to find that these measures produce less and leas effect with each repetition. The more he nags the more he is obliged to nag. What the effect of such treatment must be on the class subjected to it we need scarcely point out. It is impossible that pleasant relations should be established between leacher and taught, waen the teacher is constantly finding fault. The child who is forever being bullied gets maturally to louk upon his teacier as a tyrant, and shows no further regard for his will than is inspired by dread, anl, as a consequence of this, as som as the teacher's back is turned his will is wholly disregarded.
The nagging disciplinarian is equally bad as a tencher. He nags because he teaches bady, and he teaches badly because he naga. It would carry us too far to inquire exhaustively what are the causes of bad teaching; tho most common are defective knowledge, neglect of preperation, bad method, insufficient illustration, the endeavour to do too much, ignorance of the mental processes involved in learning. All these causes produce unsatisfactory results; unsatusfuctory results are apt to beget impatience; and impatience is apt to beget magging. A lesson has to bo gone over again and again because it w.s not gone over judiciously the firsi time ; explanations have to be explained with the effect of introducing new diffculties that demand new explamations; and the class are blamed for what were really tho faults of the teacher. Nagging o.ly aggravates the cliects of bad teaching. How can a child give the whole of hus mund to the work in hand when he is constantly harrassed by the chidiugs of his teacher? Anger does not reduce chaotic instruction wo methodical order ; it does not remove intellestual dificulties; it does not enable the texcher to set at naught the processes by which knowledge is naturally apprehended. On the sher hand, it " makes confusion worse confounded;" it distracts the mind, and, by dissipating its energies, leaves less available for the mastery of the difficulty in hand. "It is as impossible," says Locke, "to draw fair and regular characters on a trembling mind as on a sl . .king paper."
Some aumirable remarks on nagging will be found in Mr. Arthur Sedwick's recent lecture on "Stimulus" Having exphained "nagging" as "a constant fire of little rebukes to one ard anothor for inattentiveness," he says, "It wears out the patience of the best-regulated boy to receive, or oven to hear such rebukes. It is exasperating to human nature, and is utterly futile. Mor=over, it distracts and worries the teacher, and destroys evon what chance there was of any real stimulus to attention. My own advice," ho continues, "would be this-you may have in many lessons to caution ane or twice; but if you find the thing becoming common, look elsewhere for the cause and for the cure. The probability is you are becoming dull. Either quicken up a bit, or at any rate, vary the proceedings: But don't mag. It may not, of course, be your fanlt. The weathor may be hot; or there may be some excitement toward a great match after school, or races in the vicinity, or some new promotions to the Eleven; or newa has come that the
ice bears on tho reservoir. Anghon, don't mag. If it is hot, open the door and any rearaning window; if it is excitement, ty and compete with it, rather than choke it hy maging. I have leant the futility of this method by hating thed it-and faled." Discellentadvice! Whenteachers come to mondestamb that sticeess $m$ teaching does not depend on the mere will of the teacher, not on the mere will of the leaner, but on strict conformaty to the laws of nature, they will cease to nag ; they will tind out a more excellent way; they will learn that mature is to be subled in one way only, and that is hy obeying her. -- Nechoel fomedion.

## Examination (Qucstions.

BOWDOIN COLLEGE, BRUNSWICK, MAINF.

## PAPERS IN ARITHMETIC.

bexamathon for ablinion, sene. 188:3.

1. Find the difference between 000,0005 , and $000,0.0$. Aus. $000049 \%$.
2. Change 03125 to a coman fractan in its line est terans. Ans. is
3. If the year is considurad : $: 6505$ days instead of $365242064,{ }^{\prime}$ how great will the error be in $18 s 0$ years!
( $365 \cdot 25-36 \overline{5} \cdot 2+264) \times 1880=14.54368$ yrs.
4. The dividend is 5203973 , the quothent is $12 \cdot 130$, and the remander is 413 . What is the dwisor?
$(7423 \cdot 973-413) \div 12 \cdot 130=612$.
5. What is the cost of wo 5 tuhs of wal when 9 of a tun cost $\$ 6.661(60.5 \div \cdot 9) \times 6 \cdot 66=00 \cdot 5 \times 7 \cdot 4=\$ 447.70$.
6. Find the square root of $(67081$, and 004 , to the nearest ten thousamith ; also of $: 4.5$. Ans. 2.59 ; 06632 ; $2^{7} 3$.
7. Reduce $6453^{2 n}$ to kilometers: $4.15^{\circ}$ to centimeters; $6 \cdot 45 \mathrm{li}$. to milliliters. How many decigrams does a dekaliter of pure water weigh !
 415 cm.
1 li. of water weighs a kilogram,.. 1 decalitre $=10 \mathrm{~kg} .=$ 10000 decigrams.

## DARTMOCTH COLLEGR. HANOVER, N II

## entilance examination, jewl, 1883.

1. Find the G.C.D. of 66,308 , and 506 . Ans. 22.

2. Give the value of a kilometer in fect; of a kiloliter in gallons : of a kilowram in pounds.

1 Kilol. $=1040 \mathrm{~h} .1600 \times 1.050 .71 \mathrm{gts} .=204.17 \mathrm{~F}_{5} \mathrm{gals}$.
1 Kilog. $=2,00462$ lhes. avoirdupois.
3. If there is a gain of $12 \frac{2}{2} \%$ on teit $(900$. per lb., what would be the gain \% o8te. per 1 b 3

4. Find $\sqrt{ }$ (1.23--0065) to four cecmal places.

Expression $=\sqrt{ }(12200 \div(92 \dot{\hat{j}})=1 /(192 \div 2 \dot{j})=22.181073 \div-\hat{j}$ $=4.4362146 \mathrm{Ans}$.

MASS. IAST. OF TECLNOLOGY, BOSTOA, MASS.

## pathance: maminathon, dexe, 188:.

1. Find the I.C.M. of 105.46 c and 306.
L.C.M. of $15 \times 7,17 \times 4 \times 7$ and $17 \times 18=17 \times 7 \times 0 \times 4 \times 0=3060$.
 pound of rye, twelve pouids of wheat, i pounds of oats, and 4 pompds of barley. Hun much of each migredient will be contained in 100 pounds of the mixterel
Rye $=\frac{1}{3}$, wheat $\frac{2}{3}$, oats $=7 \Omega$, and oats $=48$ of mixture.
$\therefore$ Rye $=100 \div 43$, wheat $=2400 \div 43$, etc.
2. Reduce to a decimal fraction $\frac{3!}{-025}$ and from it subtract 01 of 3.
Multiply $N$. and D. by 40 and we have 128, $=\frac{10 n^{1010}}{100}$, a decimal fiction.

3. In how many days will $\$ 3240$ gain $\$ 80$ (1) $7 \%$ simple interest? $\$ 100$ gwes $\$ 9$ in 305 days.
81 gives $\$ 1$ in 3 (hin $00-5$.
3245 " 81 in ( $36(500 \div 7 \times 3245)$.
3245 " $\$ 80$ in $\frac{36 ; 00 \times S 0}{7 \times 3240}=121$ days.
4. Find the ( $\mathrm{F} .(\mathrm{C} \cdot 1$ ). of 119 and 231 .
i. c. of $7 \times 17$ :und $7 \times 33$. Ans. 7.
5. Find the cube ront of $\cdot \mathbf{J 1 2}, 326,391$. Ans. 231 .
6. How many liters are contained in a cubical box 13 inches long, 13 inches wide, and 13 inches deep on the inside?
Given that 1 metre $=39.37$ inches.
Capacity $13^{3} \mathrm{cub}$. in. $=2197 \mathrm{cub}$. n .
Now $1 \mathrm{~m} .=10$ decimeters, and 1 litre $=1$ cubic decimetre.
$\ldots 1$ cubic metre $=1000$ cubic decimeters $=1000$ litres.
But $1 \mathrm{\prime} \mathrm{\prime} \mathrm{In}^{\prime \prime}=(39.37)^{5}$ cubic inches.
$\therefore 1$ cubic li. $=(39.37)^{3}-1000$ cnb. in. $=01.025$ cub. in., ne:arly.
$\therefore$ Capacity in htres $=$ a little less than $2197 \div 61.625=$, etc.
7. How mamy grains of distilled water will such a box contain? Thes will depend partly on the temperature of the water. Assumines $4^{\circ}$, centigrade 1 gram = weight of 1 cub . centigram $=1000^{2 h}$ of a litre.
$\therefore$ Aus $=2917000 \div 61.025=$, etc.

1EDUCATION DEPARTMENT, ONTARIQ.-DECEMBER lㅅAMINATIONS, 1884.-ADMISSION 'IO HIGH SCHOOLS.

## GEOGRAPHY.

fxaminer-J. e. hovgson, M.a.

1. Name, and state tho situation of the cities in Ontario. By what wo railway routes may one poceed from Toronto to Ottawa? ; From Lomdon to Turonto? From Toronto to Woodstock?
2. Name six com.aies of Europe and indicate their relative positions. Give the name and the situation of the Capital of each of them.
3. Name the Zones and state the extent of each in degrees. Mention some of their respective natural products.
4. Where, what, and for what noted are:-Manchester, Pittsburg, New Orleans, Chicago, Quebec, Washington, Champlain, Amazon, Supei ior, Prince Edward?
5. What are the principal exports of Canada? In what parts of Camada are they found! To what countries are they sent?

## COMPOSIITION.

## bexaminer-J. e. hodgson, sra.

1. Give in your own words the substance of the following fable :-

A rustic saw an engle in tho snare,
And, as he much admired its bear:ty rare,
He loosed it from its fetters fot'l to roam:
Thence did the eagle a warm friend become
To its preserver. For, to avoid the heat
And c tch the breeze, it saw him take his seat
Beneath a wall. It satatehed, as o'er it flew,
A burden from his head, and this it threw
Fir off. The rustic, cager to pursue
His pack, made for it. Down the wailing fell,
And thus the rustic was requited well.
2. Write a short note to a cousin, or friend, in Toronto, inviting him to spend a day with you.
3. Combine the following sentences so as to form a connected story :-
Thoro was once a sculptor. 'The sculptor's name was Bacon. Bacon, when a boy of live yoars, fell into a pit. The pit wats the pit of a soap-lpoler. A workman entered tho yard. The workman observed the top oi bacon's head. The workman immediatoly rescued lawon.
4. Contract each of the following complex sentences into a simpte sentersco:-
(a). When Ceesar had crossed the Rubicon, Pompey propared for battle.
(b). As I had nothing elso to do, I went away.
(c). If you remain here, you will suffer from cold.
5. Correct the foltowing :-
(a). It is equally as gond ns the other.
(b). There are but a few other similar places.
(c). Whenever ho sees mo he always enquires after my health.
(d.) He dues not know you better than John.

DRAWING.
EXAMISER.-I. SEATH, M.A. 10 mearks for each question.

1. Illustrate and describe (a) a square, ( 1 ) its vertical diameter, (c) its left oblipue diagonal.
2. Draw an upright view of a square about 1 inch to a side. Draw its diameter and bisect each semidiameter. From each of these points of division draw at straight line to the two nearest corners of the square. Join the ends of its diameters and strengthen the parts of the sides of the oblique square, not covered by the outline of the four pointed star. Strengthen the outline of the four-ponted star.
3. Draw a square 2 inches to a side. Divido it into four smaller squares. Fill each square with a four-pointed star overlying a square with sides oblique.
4. Draw a right line moulding about $1 \frac{1}{5}$ inches long and $\frac{1}{2}$ inch wide, composed of concoutric squares and the portions of tho dianeters of the larger square lying between the innor and outer squares.
5. Draw the top and side views of an oblong block of stone. The ends of the block are $\frac{1}{2}$ inch to a side and its height is 1 inch. Place the end view either above or to the right of the side view, and connent the views by dotted lines.
6. Writo brief directions for drawing a square 1 inch to a side on its diameters. Illustrate, and number the lines, to show the order in which they were drawn.
(T's be continued next ucek.)

## 

PRIMARY DRAWING-HINTS AND DEFINITIONS. (From Professor Walter Smith's I'cacher's Manual.) delicacy of touch. - firniness of line.
When your pupils begin to draw on paper, one of the first things they need carefully to cultivate is delicacy of touch. The inexperienced are apt to moke the first lines altogether too heavy, and so, if they are wrong, wuch time is lost in erasing, whilo the appearance of the drawing.book is marred. Then, too, the point of the pencil is frequently broken off. On a slate such lines are less objectionable, since they can be readily removed.

Do not mistake the application of what is said about delicacy of tonch. It does not mean that such a touch is specially needed to produce delicate lines when you are finishing a drawing; it means, rather, that it is needed to produce the first lines, which constitute the sketch, and which should be drawn so faintly as to be just fairly visible. When the drawing is lined $m$, finished, then the line should always bo frim and not weak, bold and not wavering and timid. A firm, bold line can be had only whon the pupil knows
just what he is to do, and then firmly and boldy does it. Look woll after this.

In order to secure this firmness and boldness of lino, which is of so great value, some of the best schools of art require their students to begin to draw with chareoal. But this is found impracticablo when children are to be taught in class. Whey can manage the lead poacil much more easily, and securo much better results. Requiro your pupils constantly to act upon the suggestion here given, and not waste their effonts in trying to secure a fine, delicate result when lining in their work, instead of that which is firm and bold, even though it may be somewhat rough.
masionement of the eyt.
Do not look directly at the point of the pencil when drawing an original line, as you look at the point of the pen whon writing. With inexperienced pupils there is a tendency to kenp the eye fixed upon the point of the pencil ; and so you must instruct them otherwise. Not only aro there different varieties of lines, but, when they aro drawn freehand, it is commonly under one of three conditious, each of which demands a somewhat different management of the eye.

1. When a line is to be dawn to hit a given point, as is usually the case, keep this point always in view, or you can never know whither you are going. lmitate the carpenter, who does not look at his hammer, bat at the head of the nail he desires to hit. So far as possible, keep the whole space where the line is to be diawn, with the point to bo hit, in the field of vision at the same time.
2. When a line is to be dhawn without reference to litting a given point, keep the whole line, as it is drawn, in view. In this way mistakes can be prevented, which is much better than correcting them after they have been made.
3. When one line is to be drawn paralled to another, keep both lines-the line drawn and the hias being drawn-in view at the same time. By practice you will learn how to do this.
These directions hold good only when you are drawing a line for the first time, not when finishing a line already faintly dram. In the latter case the eye accompanies the point of the pencil.
bate of motion of the pencil.
The motion of the pencil may be as rapid as the eye can distinguish clearly; but it should not be more rapid, for then the line will be right only by chance. Hand and eye must always work together, the latter directing the former. Again, the motion should always bo steady, miform, from the begining of the line to its end, never-hesitating or jerky, Give particular attention to this matter, observing how each pupil handles his pencil.

It is expected that these general directions will be given to the pupi's, not all at once, but is required, and that they will be repeated until the pupils have learned to follow them from habit; when a certain way of thinking or doing has become a habit, then, indeed, it is thoroughly mastered, and not before. Be very wateliful of your pupils when they begin to daw, and kecp them, if possible, from acquiring any bad habit, which they must afterwards unlearn. To unlearn is the hardest sort of learning.
ocular and verbal insthuction.
For all, but especially for children, ocular illastration is very much better than verbal explanation. Remember this in your attempts to teach children the exact force of the techmical terms used in drawing. It is far from enough for them to learn the detinitions of these terms by heart, and to repeat them glibly. This most children can easily do, without understanding one of the terms: it is only what so) frequently happens in the case of geography, arithmetic, grammar. The pupils must wee the definitions illustated again and again: they will then understand them; and, provided they do clearly understand them, it is of little consequence whe ther they can repeat them word for word.

## SCHOOL CLASSIFIC.ITION.

EnOM mathowis's "ant of schoob, Manachembec:"

School, Classification is the grouping of the pupils for sehool work aecording to age, ability, and seholatship. Wine classification puts each child in its proper place. Trwo distinet plans are pursued close classifieatiou and home classitication. On the first phan the pupil makes equal modvanement in the several manches of the course, on the second plan the pupal is permitted to advance in certain branches without reference to his attainments in the other branches. In all elementary schools the classification should bo close, never loose. As a basis, attention is invited to the following:
I. Principles relating to School Classification.

1. Unifornitx. - The Seceral Branches should be hept Abreast. The phase of the several branches pursued must be the same. It is not uncommon to find pupils well advanced in arithmetic, but extremely backward in other branches, or well advanced in geography, but deficient in arithmetic. These unfortunates should be so classed as to give the greater part of their time to subjects in which they are deticient. The application of this principle will work a much-nceded revolution in our ungraded schools.
 adcopted to his Ability and Aldancement. If classed too low, the pupil is not stimulated to effort; if classed too ligh, he is apt to become confused and discouraged. Nothing sueceeds like success. Each pupil shoula be so classed as to become a success in his classes. 'the application of this principle requires sound judgment and a profound study of child-nature. Classification can never be done hy mathinery.
2. Chmema.-A! $\rho$, Abilit!, aud Scholar:hip, dotormine the Classititation. Other things being equal, ohler pupls are classed higher than younger, and stong bright pupils hogher than delicate or dull ones. The reasons are apparent. To consider scholarship alone is a grave, though common error. Examinations, oral and written, give some of the conditions; but to ignore ability is to fail to reach the orrect solution. Staly the child.
3. Standard. - Reading amd Arithmetic are made the Standard of Ciassification. All the pupils in the elementary school are in these branches. Ignomance of these bars progress in other studies. The judicious teacher will give due weight to the pupil's advancement in other branches; some may be worked up, others merely reviewed. Complate adjustment may be secured by firmness and a few months of hard work.
4. Number of Classes.-As feag Clawes should be Organizerl as is Comsistrnt rith g/ment Grading. C'ponthis principle depends largely the efficiency of the ungroded sthonl. Numerons classes fritter away the time of the teacher whont producing sattsfactory results. Eniformity of texi-howk, wise combinations, and practical devices enable the competent teacher to reath a high standard of efficiency even ma large ungraded school.
5. Si\%e of Classes,-Medium-sizal Clusses are Best. Darle Pupil must be reached Individuall!/ during the Recitation. In very large classes this can not very well be done. In very small
chases it is difficulte maintain suffement interest on the part of teacher and prpils. delass mumbering from ten to thity is most desimble. Avoid, if possible, orgamizing chasses for three or four pupils. $A$ s a rule, from five to ten should be the minimum momber in any chase, where the sehonl is large.

 have na taste for arithmetie. The minimum amount of work in arithmetic and the maximan amemat an lansture should be repuired of such. So m other bathes.

Stumy your Purils.-"You go into your school-ram, and, aiter a superficial observation, you conclude, "These scholars are just like the ones I had last term-are of the same grade and age'; and you will commence ruming in the old groove. This is a great mistake. Of the myrials of beantiful llowers that adorn the earth, there are no two alike; so it is as regards children: there are no duplicates in God's ereation. Every child that comes into this worldis anew combination of elements. Your first and most important iuty is to stady the nature of each scholar ; study the charactenstics that are pecuhar to cath, that you may know how to awaken then nobler emotions, and adjust the work to each one's wants." Lour classification will thus become truly atistic. The school is for the children, and not the children for the school.

## ENTRANCE LTTERA'TVRI FOR JT LY AND DECEMIBER

 1885.[Elited fur Cinala School, Journat, by Messrs. Ih. Ray Coleman, Principal of P'eterboro' P'ublic Schools, and J. D. McImoyle, Principal of Peterburo' Separate Schools.]
sir John Frumlinu. - Paye o.

T': Palur clowls uplift, rte- The papers discovered by McClintack, give but a meagre acenunt of what happened. The poem informs us that clouds cover those regions, and hides as it were everything from view; but as they rise for a moment wo seo the men on their march from the ships in search of some friendly settement of Esquimax, open water, or rescuing party. Then the clouds settle down again, atid all is as dark as before.
Burcel for their closing parts. - 'The sailors hat firmly made up their minds to meet whatever awaited them with a brave spirit.
Lomg Mrow to the Grave. -They marched from the ship as it were, to meet death-had they not left the ship, death would have met them there.

The snows dazeling blink:-Looking over large ice-fields a dazeing glare is noticed in the atmosphere.
Draary. - (Imitative Harmony.) -'io fall, to become weak.
Is dotted - Where the exhausted sailurs dird as they went along.
Slecping head for death. - A Euphemism.
Gaze, in some editions; this word should be "graze."
Sleeping head. Sce note above.
Like drimburds reel. - A species of delirium or snow-blindness is caused hy travelling, nut only in the Arutic regions, but anywhere wer large fiehls of shuw or ace, durmg sumhtr, $t$.

Fiotling-Kheotng.-Thas verb should be "witting" the present particple of witan - to know. Present tense, "wot"; past tense, " wist"
But for the terrible panse produced by cold and hunger, the sailors scarcely knew whether they were ahve or dead.

The rime of their hom.-The Mackenzie River they expected to reach, although they were far from it when they died. Thoy wero nearer the Coppermine or Bach River.

Snow blind way they grepe. - 'Temporany blindness is produced in travelling for a length of time over snow or ice-hence they had to grope their way like the blind.

Irom strame. --I'Ie rocky const or shone.
III heart ne'er whed to see, cte.- Franklin who died on his ship. did nut seo his men perish.

The suilur's pungs wene free, etc. - The sailors did not have the $r$ age mies augmented by having their gallant captain perish with them.
"P'unch" is the name of a London aewspaper that may be seon in most book-stores at the present day. It is the most humorous paper published in tho world. Sometimes grave pieces like this poem are found in its columns. This is said to have appeared in Punch in 1859, shortly after McClintuck brought the news of Franklin's fate.

Mark the vowel sounds and accented syllables of the following words.-Pular, snowy, gellant, calm, dazaling, gone, foxes, strand, remanat, shuddering, captain, apart, endurmg, devoted.

## Memorizs the poem

Tell the parts of speech of each word of the folluwing compound words:-Well-ordered, snow-blind, snow-clonds, well rum, frostwind, much-loved.
The metre of this poem is Iambic Hexameter.
Measure the lines.
Write all abstract in prose of the lesson.
Sir John Franklin was born in 1786, in Lincolnshire, England. In 1800 ho entered the navy, and took part in the battles of irafalgar aud Copenhagen. In 1819 to 1822, he was engaged in survey ing the coust northward from Hudson Bay. He was made Guvernor of Van Dieman's Land in 1836. In 1845 he undertook to tind a nurthwest passage in two ships, the "Erebus" and "Terror," when as the lesson states, all perished. Sir L. McClintock in 1858 found on King William's Island, a box containing papers in a "carn." The papers found informed hum that Framklun had deed on board his ship, and that has crews tred to teach some frendly settlement, open water, or perhaps a rescuing ship. There have been upwads of 200 Arctic expeditions. The following are some of the more important Franklin searching expeditions:-Moore, Rae, Ross, 18.15 ; Rae, 180004 ; Belcher, 1852-4; Kane, 1853-j’; Hall (Americall), 1804.6; Hays (American), 186j. Traces of Franklin have been discovered by several Arctic explorers since 1850.

McClure made the discovery of a north-west pusage in 1852.

One of the rarest faculties of the teacher is the power of bringing a class into sympathy with hmself, and filling the hour with an atmosphere of encouragement sugyestion, and inspir:ition, which enables the scholar to do his best. There are teachers who seem to disintegrate and demoralize a scoro of chaldren, or even a class rom full of college students. In some indescribable way they drive overy pupil nito a corner, cut every bond of sympathy between him and his fellows and bring him to his fect in a recitation, like a solitary solder in a forlorn hope surrounded by enemies. One-half the success in teaching is the faculty of inspirng a reasonable contidence in the learner, so that he shall bring his full measure of power to grapple wath every dilhculty. thus can only be realized in an atmosphere of sympathy and stmulaturg encouragement whose source must be the manhood and womanhood of the teacher. And this is not an intellectual, or even "magnetic," but a moral power,-somewhat the gift of mature, but far more the result of pong ind prayerful self-discipline, and the cultivation of a love for humanity. Many a teacher in no way distinguished by knowledge, unskilled in tho handing of the most approved methods, is thus able to achieve great results, by lifting the little community in the school-room up to an enthusiastic leve of knowledge, and pouring around all a spintual atmosphere in which overy one is twice him-self.-U. E. Journal of Lid

Do not scattor your furce as a teacher, especinlly if you are a primary teachor. Ihere is a cortain satisfaction if only wo are busy; never mind where tho foree goes; but tho teachor has no norve force, no mental energy, no physical stamina to wiste. Lot overy word, movement, thought, tell for success. Many efforts at discipline scatter furce: It piys to say little; do little in discipline, but do that effectually. Many explamations of lessons scatter force because enven without the attention of the clars, without due meditation and care in choico of method. It pays to have attontion, and a method of procedure well chosen. Husband all your force, and gua , at erery puint hrianst the miscellancous waste thereof.

## ansivers to corresponionts.

The School Joursal Arithmetical Competition is open to all who comply with tho conditions. In answer to enguiries we have to explain that tho Arithmetic for 1II Class includes Greatest Common Measure and Least Common Multiple, Vulgar Fractions, Elementary Decimals and Elementary Reduction; for IV Class, Vulgar and Decimal Fractions continued, Reduction and Compound Rules, ind Elementary Percentage and Interest.

## Exucational notes mo fras.

The students from the martime provinces and Newfoundland who are attending McGill University lave formed a Maritime Association for the purpose of promoting a greater degree of social intercourse among the students from the Eastern provinces. There are fifty students in the Soctety.-The Argosy.

The number of school districts in Pennsylrania is 2,241; schools, 10,919 ; graded schouls, 8,345 ; Superintendents, 108 ; malo teachers, 8,559; femalo teachers, 13,905 ; average salaries of male teachers per month, $\$ 38.4$, and of female teachers, $\$ 29.39$; average length of school term in months, 6.ft; pupils, 966,039 ; average number, $6 ; 30,67 S$; cost of tuition, $8 \overline{0}, 403,636.41$; cost of building, purchasing and renting, $\leqslant 1,086,132.74$; cost of fuel, contingencies, debt, and uterest paid, $\$ 2,373,452.66$; estimated value of school property, $\$ 31,856,098$.
The half-yearly report'of the Ontario Ladies' College is one of the best over presented. Wo are pleased to learn that the college is increasing in popularity as well as efticiency.

The attendance at Varsar College has fallen off more than half since $18^{-} 5$, and the managers attribute this state of things to the newspay ar paragraphers who have pointed new jokes at Vassar girls and rehashed old ones to fit them until those who shrank from unwholesome notority hesitate to have their names appear in the Vassar lists. So says a newspaper paragriph.
The Council of the Theolugical Society of London have placed Toronto University in the list of institutions entitled to receive a free copy of all publications of the Soctety.
The Waterloo County 'reacher's Association met at New Ham. burg, on the $2 \overline{7}$ th inst. The President, Mr. Comor, Principal of the Berlin High School presided. Several interesting papers and subjects were read and discussed during the day, and in the even ing. J. A. McLellan, M. A., LL.D., delivered a lecture in the Town Hill, subject:-- "Education in Ontariu," which was listened to attentively thro ghout by a large and appreciative audience.

The first semi-ammal meeting of the Toronto Teacher's Association was opened in the Sunday Suhoul building of the Carlton Street Methodist Church, on the oth ult. The President, Mr. Samuel McAllister, occupied the chain. Sume 200 teachers answered to their names. The President real a number of recommendations made by various teachers, relatung to details of managenent and modes of teaching in the schools of various qrades. Miss S. I. Taylor read an inteacstin: paper on How to Teach Language Lessons; and Miss A. MeIntyre, dealt in a lucid address, with the best mothod of teaching music to junior classet.

## ducsomal.

Mr. Charles S. Colyuhom has entered on has thard year matarge of the Model Busla School.

Mr. Rubert Meliwent one of the ohlent teadiers, as rezathets years of service, has the Granthey Shoul, and has moved his family there.
Miss Jamet Hephurn has been reengated in No. S. Williamsbure.
Miss Christic Combhart, another Ottama Normal aroduate, has the Dantar School.
Mr. M. Mekay, who tanght at MaIntyre last year, is anm teaching at Honcyword.

Miss Mckinnon, of Maple Valley, is teaching at Drew, in the county of Wellington, and is giving goond satisfitetion.

Mr. A. C. Fetterly has :assumed charge of Bell's Corners School. The school tanght by Mr. F. hast year is among the tirst in the county as to standing.
The trustees at the churches have given the contract far a new school house, which, when completed, will east about $\$ 1,200$. The teacher, Mr. Shurtheff, is a worker, and will apprectate the new house.
Mrs. Carric Hazell. another emaluate in the last session of the Ottara Normal, has the Morristown School.

Mr. G. I. Brawn, furmer teacher of No. 20, is attending the Morrisburgh High Suhon, and has been succeeded hy. Mr. George Hayunsa. This is a section only lately furmed, and not very laree, but the people are determmed to have a good school.
Miss Hattio Lawyer, has been reengaped in Nor. 11. The people reengnize the adsantage of having it trinach teacher, and are paym: her a higher salary than they ever painl hefore.
Miss Lydia Hilliard has the East Willaushurgh Selooch.
Mies Hulda L. Whitermb, at one time a teacher in (ioderich, is engased in literiry pursuits in T.ronto.
Miss Nellic Tighe has taken a schoul in Fomkian, north of Toronte.
Miss Kenncly, one oi the public schoon tenchers, whin was seriously indisposed for the past two wecks. we are ohad to antice, is able to le about agam. - Mitcirll AMrorsit.
Our sehowi is prouressines well under the able manazenent of Miss E. Girtleg. Miss Gertley has drawn the largest mumejal grant of any school in the township this sessiona. - Innusimel for: Fictoria \#iacior.
We repret tolearn of the death after a lingering illness of Miss Campbell, late tracher in one of the St. Thumas Pubitic Sichowls, and daughter of Mr. S. M. Campell, Prmapal of the Monde! School in chat tawn.
Miss I. B. Toye, who read the valedietory at the close of the last Xurmal Sichonl sussion at OtLma, has rece:ted an appomtment to P.S. Sto. 1:1, Williamsburg.

## stliscellamrous.

## A PATHETIC JACIDENT.

Dr. Johm Hall, descrites in a pathetic manner a scene that


 drunkard, he saw in his neighimers eyes sah a sol, phying beok that he stid to ham, "They shouhl hardiy langh at him." "No,
 to driok in Sondand, and whin promisel tor reinrm th he worbld
 " liut I huje you have comiort in your chalren." "oner, the
 sith her; and the gonangest, a buy, cant be hept from dimak. I've sold ny place, and am going to a tarn in Olive there, I am!
told, no liquor can be had-to try to save him." Dr: Hall says, " Who would not wish for ahstinonce societies, tracts, books, minister's sermoms, youns people's pledges, hamane laws? Due :hanst cries ont for canthine that will stop, this slow, cruel murder of home love, of men, of women, of little children, of hope, of peace, of itumurtal sumis." It is this that is a part of our life; shat ant eyes if wo will. So the teacher must diffiuse a sentiment in favor of temperance. It is said we can do no more now to stop the trafle, because the jresent generation were not educated to comprehend the immense issues at stake. Our school-rooms must teach temperance. - Miow Yorl: Schod Jommal.

## ARCTIC ADVENTURES.

Conamander Schley, of the Greely relief expedition, speaks most enthusiastically of the beauties of the countless icebergs of the northern seas. "One moraing, then the atmosphere was hazy from a light fall of snow, in going a stiff nine-knot gait, we ran phamp into an icebery that was in our way, and which no one couhl sec. For a moment I thought every mast would go by the board. and that my hair and teeth had preceded them. I never got quite such a shock. I was nearly thrown out of the cron's nest. I expected soun to hear the 'Alert' was leaking. But, strange as it may seem, with a rebound of at least thirty feet, there was not a seem started. It was almost miraculous that wo had no catastrope, and shows how thoroughly that ship was built for just such cuconuters in thoen emas. On another oceasion, when over against ilie Greenland coast, I counted not less than 1,500 iceberys that had been pushed from the glacial formation on the slopines headiands of the coast into the sea. We could occasionally hear the craviling that indicated the fissure; but the sight of there majestic monarchs of the sea saili:g off in the morning sunlieht, with all the colors of the prism, was something that cannot be described. Fascinating region, do you ask ? Never a one more so. I wanted to stay there arrite. Even the men I took at New lielford and Sex. Lamdon junped at the chance to go, though sume or them .sid they did not expect to come back again. Why, aiter we got (ireely, and our misston was accomplished, I never felt such a paus oif disappointmest that, with seventy two days of summer weather before, and an open sea, I was obliged to furn my prow homerrard, and abandon the clance to get a higher latitudo tha: any other explorer."

## HUW SLATE PENCILS AME MADE.

Broknon slate from the quarries is put into a mortar run by steam and pounded into small particles. Thence it goes into tho hoppe ai at mill, which rumsintoa bolting machine, such as is used in fhouring mills, where bolted, the kine, almost impalpable flour it is that aesults beiong taken into a mixing tub, where a small quantity sicatite flour manufactured in a similar manner is added, and the whole is then made into a stiff dough. This dough is thoroughly kucaded by fassing it sereral times between iron rollers. Thence it is carried to a talhe, where it is made into charges-that is, short cyliaders, furb ar tive inches thick, and containing from eight to tea fumals cath. Four of these are phaced in astroug irou chamber or returt, with a changeabie mozle so as to regulate the size of the frinel, and sulijected to tremendrus hydranlic pressure, under whels the comanmation is pushed thruigh the mozale of at long cord lihe a slemier suake slidine: out of a hole, and qusses over a sloping tahine shit at right angles with the cords togwo passage, with a knifo which euts them usto lengelhs. They are then laid on boards to dry, and after a fer hours are remored to shects of corrugated zinc, tho corruratious serring to prevent tho pencils from wrapping during
the proceas of baking, to which they are next subjected in a kiln, inte, which super-heated steam is introluced in pipes, the tempe ature being reymated according to the supurements of the articlen exposed to its influence. From the kiln the articies so to the finishing and packing room, where the eads are thrust for a secuml under rapidly revolving emery wheels, :und withdrawn beatly amb smoothly pointed ready for use. They are then patcked in pasteboard boxes, each contaning 100 pencils; and the:e boses, in turn, aro packed for shipment in wooden boxes contaming 100 each, or 10,000 pencils in a shipping bux. Neariy all the work is dune by loys, and the ec.st therefore is light.-Eischange.

## FHE HORSE RIDING DOWIN HILL.

The Carson "Appent," has the following:
"My. Torreyson, the blacksmith of this city, is noted for his kinuness torard animals. He has just built a rond cart, now on exhibition at his blacksmith shop, which is destined to aevolutionize traveling by road and to materianis ighten the labors of that nuble animal the hose. The itea is io occasionally give the horse a chance to ride in the cart as the driver. The idea was dirst surgested to MIr. Torressun by secing a turtle move: along the road carrying his shell with him. The vehicle made by Mr. Torreyson has four high wheels, and the phac:s between them arehed, so that the horse is hitched under the wagen between the wheels, his head projecting a little beyond the front wheels and his tail just barely clearing the hind wheels. The driver sits just erer the horse's neck, and the others in the rngon face outward on each side. The horse is so fastened that the pulling is distributed ower his body nud does not all come on his neck and shuulders. In this position he is greatly protected from the sum and storm, and therelog enabled to make long journcys with less fatiguc.
" J3ut the principal part of the invention lics in a belly-band, nbout four feet wide, passing under the horse. When you reach the top of a long hill, down which a hurse wouhl have to go showly as he held back the lond, you sinply turn a crank, and it lifts the horse ofir his feet several inches irom the ground, and the vehicle then runs down the hill of its own momentum. It is provided with n stecring apparatus and a brake, that the vehiclo may be steered nad its relocity regulated.
"Several times during the day the tired horse has a chance to ride, and is rery mueh rested. Also, when the horse attempts to rum aray, you wind up the crank, and he is lifted of the ground perfectly helpless"

## IDEAS ABOET INDIA.

The account given me by the oldest and best iniormed of my native acquaintanco (and $I \mathrm{am}$ not talking here of llengala demagogues, but of men holding, it may be, or who have held, high offico under Gorenment, and deservedly trusted liy it) of the groduna estrangement which has come about within their recollection betreen themselren and the English in Indin, is most mstructive. In the Gays, they say, of their youth, 80 and 40 years age, though there were alfays among the comparis oflicers men who from their abuse of power uere disliked and justly feared, the general fecling of natives toward tho English civilian was one nif respect and even of affection. The Indiancharacter is affectionate, enthusiastic, and inclined to hero wurship; and the English in carly days, from their superior knowledge and strength of character, excreised no litlle iascination on the native mind. Nearly all of the older men talk with reverence and eateen of certain :eachers who in tructed them in youth, and of certain early patrous to whom they
orred their success in nfter life; and they willingly achnowledgo the influcnce exercised over themselves and their generation by such individual example. The English oflicial of the day, they : alirm, had more power than now, but he exercised it with a greate: sense of responsibility, and so of honor in its diselarge. IIe took paius to know the prople; and, in tact, he knew them well. Exicept in the very highest ramks of the service he was readily accessible. He lived to a great extent among the people, and according to the custums of the people. Lfe did not disdain to make friends with those of the better class, and occasionally he anaried among them, or at least contracted semi-matrimonial relations with the women of the land. This may have had ill consequences in other wass, but it broke down the hedge of caste prejudice between East and West, and gave the ofticial a personal interest in the people, which no more sense of duty; however elevated, could supply. The Enclishman of that day looked upon India, not unfreguently as his second home, and takion the evil with the good, treated it as such. England could only be reached by the Cape route. Traveling was tedious and expensive, the mails fer and far between, and many a retired officer had at the end oi his service become so wedded to the land of his adopton that he ended his days in it, in preference to cmbarking on a new expatriation. It is easy to understand from this that the Angh, Indian official of the compamys day loved In, dia in a way no Qucen's official dreams of dong now. Also that, hoving it, ho served it better than now, and was better loved in return.- The Fortnightly licrietr.

## No EsCADE.

The Chicago Inter-Cfenn tells this story of the late General Henry D. Foster, of Pennsyluania, a man of singular unselfishness and purity of character :-
" White a member of the Incxislature a prominent old gentleman familiarly known as 'Jimmy;' who made a business of attending the sessions, came into the General's room, and in the course of conversation about a bill in the House, remarked:- ${ }^{\text {a }}$ General, there is money in that bill, and yot may as reell get some of it. I can get you $\$ 500$ for voting for it. The General, knowing that moml indignation would bo wasted, and also that the offer from Jimmy's sfandpoint, was made in pure friendship, simply said:- ' You ontight not to talk to me in that way, and since you sny they are ! using money to pass the bill I shall rote against it.'
"'. In right', said Jinny; 'the other side are using money, too, and I can get you 5500 irom them.'
"Then the General was angry, and ho said: 'If both sides aro using money I romit rote on the bill at all."
"' That's better still', said Jimmy ; 'I'll get you $\$ 1,000$ for not voting either way:-
"The Gineral did not tell me hom the intervien ended, but it appeared to me that the only escayre from the dilemma mas to resign and go home. It was erident that the General's voie mighe havo been sold to anybody smaple enough to purchase it without his knowing anything of the matter."

Edmund Abrut, the celebrated French litteratcur is dead. At the outbreak of the Francu.Gernan war he accompaned McaIahon's arny as special correspondent. In 1872 he suffered a week's imprisenment. from the German authorities for some abusire newspaper articick, the Germans chooning to consider him at German subject from his being an antive Lomraine. Ho leaves an wifo and cight children.

## NOORDS

Words are fighter than the clond-fom Of the restless ocema spa:y; Vaner than the trembling shatow That the next hom steals away.
By the fall of summer sum-drops Is the air as deeply starred;
And the ruse-leaf that we read on Whll outhre a wodd.

Yet, on the dull silence breaking With a lightuing thash, a Word,
Bearing enilless desolations On its blighting wings, 1 heard:
Earth can forge no keener weapon, Dealings surer death and pain,
And the cried echo answered Through long years again.
I have known one word hang starlike O'er a dreary waste of yeats,
And it only shone the brighter Looked at thromsha mast of tears;
White a weary wanderer gathered Hope and heart on Lifes dork way,
13y its fathful promise, shining Clearer day by day.
I have known a spirit, calmer Than the calmest bakis, and clear

- As the heavens that gared upon it, With ne wate of hope or fear:
But a storm had swept across it, And its deepest deyths were stirred, (Never, never more to slamber;) Only by a word.
I have known a word more sentle Than the breath of summer air;
In a listenimg heare it mesiled, And it lised forecer thers.
Not the beating of jos praven Stirred it ever, might or day;
Only with the heart's hast dhrobling Could it fade an:ay:

Words are mighty, words are living: Sepents with their remonous stmge,
Or bright angels, crowding rounci us, With heavens light upy their wings:
Every word has its own spimt, True or fatse, that never dies ;
Every word man's lipis hate uttered Echoes in God's skies.

Anglame Proctor:

## - The (Question Dramer.

## Qiestioss.

L. Ia Calkin's "Geugraphy of the Worid " pare 2 this statement is found:-"A body weighs slighty more mear the poles (than at the equator) which is anoher proof that these parts of the carth are fattened." Let the fact stated be aramed. Does it provethat the earth is slighty tatemed at the pind ${ }^{\prime}$ If there were no cen. trifugal force wouk a bendy not weigh slighty moreat the equator? A. 13., Sova Scotia.
II. A speaks the truth 3 times in $4 ; 13+$ times in $\bar{T} ;$ and $C$ G times in 7 . What is the probability of an erent which it and is assert, and $\mathbf{C}$ denics?

Samera, C. Late in N: J. Jummel of Jiducation.

I. The minute hand moves of spaxes in 60 minutes $\therefore 60$ spaces in Giaj minutes.
The hour hand moven in spaces in 60 minutes. $\therefore$ in $\mathbf{C O}$ min

$\therefore$ in bifis minutes the minute hand approaches the hour hand
 spaces $=10$ in spates. $\therefore$ the hands are 12 is minute spaces apart. Green River, Feb. 23, 1853.
J. W. Ellebiby.
"Losistes" sends'solution to foregoing question and also to the interest question in paper of some date, but there is an error in his solution of the first and his method is incorrect in caso of the other.

## Titerary

St. Nicholas for March, Ias for its frontispiece the inauguration of President Gafieh. In the stories, pooms, and sketches of this number, the following writers are represented; J. I'. 'I'rowbridge ; E. P. Roe; Edmund Alton; Charl s E. Carryl; Licu. F. Schwatka; Julia Schazer; Louiso Stocklon; Jemaic E. 12. Dowe; M. C. Griffis; Malcolm Doughas, and Celia Thaster.

Intrein.'s Iavise Ace: The mumbers of The Siving Age for the weeks endimg Febrany Mth and Ilst. contain lrince Bismurek, London Quarterly; Sylury smith, British Quarlerly; Eughish Character and Manners as lortaged by dazhony 'Irolloper, I'ostminster, Cabarism, Siuctecuth Century; Dr. Jobuson, Contemporary; Dedla Cruses and Auma Matilda; :m Episonde in English Literature, N tional lacvicu; The Summer Palace, leking, Je graria; Whit!y, Gool Worts; Whe Relinion of Hamlet, Mont's; Ont ide Lombon. Chambers' Coptic Monast-ries in the Righteenth Century, All the gear lomml; "Snow Bucking" in the Rocky Mountains Lonjmans: Silence is Gold, Spectator; with instalnents of " A Honse Diviled Agrinct itidf," "Withith his Danger" a Tale from the Chinese, and " I Mard Jay"s Work," and Poetry.
For fifterewo mumbers of sixty.four lirge pages each (or more than 3,300
 offer to sond any one of the American 84.00 monthlies or weeklies with Ihe Living Age for a your, both postpaid. Littell © Co., Boston, are the publishers.
Latitiks of ('ienzo. Sdertedand edited withintroduction and notes hy J. 11. Muirhoul, 13.A., Oxin, Examiner for Degrees in the Uuiversity of Glas:own This work will be foum valuable for the stady alike of the writing: of Cicero, and of the chatacter of the Author and the times in which be lived. 'The teat is bentifulty clear and pleasiug to the eye, the annotations are mamerous but bigef and to the point. Inivington's, Water. low Ploce, I.ondon.
 Tron. Edited by J. Irnold Turuer B.A. Iate Junior Student of Christ Chareh Oxford, Assivant Master at Millmmot haghy lath in conception and in execution this litile work is excellent. We know no better means of familiarizing the xtulent in dio cardier stages of his classical course with the forms and stracture of the langages than frequent practice in offand translation. Thealijity tormat sight an casy pacsage in Jatin or Greek, is one of the best tesk of proficioney, but it is cue in which too many of the students in oar proparatory sebooli-shall we say aud colicges toowould fail. A half hour twiev or thrice a week conh not be spent more prontalily lyy such studeuts than by translating at sight from the passages given in sucla a collecion as the one before us. The prose selections aro fraduated in pifficuht: the lowtry is arrauged aceording tos Authors. Wivitegon"s, Waterleo llace, Jondon.
 the directon of the Minister of Agrienture, for the information of Emi. grants, and ohhers interented. It empodies much usefal information in reहnard to climate, srenery, productions and resources of the Pacific province, and contains several illustrations and a nomal colourced map of the province.
 "The Ciass.13ook of Druse and Poctry;"" Gleanings from School-Life Exjerience." "'Xeacher's Manaal," and Darents’ Manual." Cloth. 218 pages l'ries, $\$ 1.00$. Sent, postage paid, on receijt of the sumunt. The book contains seven chaptrs: I. Theory and lractice; n. How to liegin; us. IIow to Govern; w. Ilow to Teach; v. Mhysical Cultare; vi. Murals and Manners; vi. Kemperance in Selocols It is writien in an niraighiforward concise styic, is e:ninenely jracical and ahounds with woll chosen illustrations. We do not nagre with the Anthor onall pointe, esjecially in the chafter itu government, but we can commend the book as one which can scarcely fail to be ueeful en every azmess tazcher. Cloth. 2ats pagar. IPrier. S1.00.

