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## THE CANADA

# EDUCATIONAL MONTHLY 

 AND SCHOOL CHRONICLE.DECEMBER, 1880.

## SOME THOUGHTS UPON EDUCATION AND NATIONAL PROSPERITY.:

by Rev. Walter m. ROGER, M.A., ashburn.

BEFORE entering upon the point intended specially to be discussed, viz., the kind of education best suited to this country, it may be well to notice a few considerations calculated to bring out the importance of the subject. The history of the world gives unbroken testimony to the fact, that a nation to be prosperous and great must be characterized by intellectual culture and vigour. A glance at the great masters of empire in the ancient world and the modern will illustrate and confirm this position. Look at Babylon, Persia, Egypt, Greece, Rome, and India. Each of these in turn was conspicuous for culture and furce of a certain kind, but defective both in extent and in degree, and each in turn succumbed to some younger and more vigorvus nation.

[^0]In modern times a marked contrast is apparent between such lands as Spain, rich but unprogressive, mainly for want of right education, and Hoiland, poor in natural resources, but intelligent, self-reliant, and thrifty. In the east, India and China have come down to mudern times under the sheer weight of material wealth and numerical forces, but have promptly owned the greater vigour of the more enlightened natiuns of the west, though these are their inferiors in material resources. See how in 1857, a handful of these intelligent and s.1f-reliant "Isles-men of the West," held the British possessions in India against the teeming millions of the native races. One of the most sagacious and liber.! of French poliical philosophers, Montalembert, looking on with admiring wonder at the achievements of such men as Havelock, Nicholson, F „el, Wilsor, and Neill, forgets national
jealousy and avows with delight that, "They do honour to the human race."
" It is not only such names, great beyond comparison, it is the bearing in every respect of this handial of Finglisthmen, surprised in the midst of peace and prosperity by the most trightit:l and untorescen of catastrophes. Not one of them shrank or trembled--all, military and civilians, young and old, generals and soldiers, resisted, fought and perished with a coolness and intrepidity which never faltered. It is in this circumstance that shines out the immense value of public education, which incites the Englishman from his youth to make use of his strength and his liberty to associate, resist, fear nothing, be astonished at nothing ; and, to save himself by his own sore exertions, from every sore strait in life." Well were it for France, had the nation at large, and the Government in particular, recognized the truth so elo quently and generously spoken by Montalembert. Her position and circumstances, in relation to neighbouring nations, might have been far different from what they are. Intelligent students of national history do not hesitate to lay the blame of France's misfortunes, not only in the recent war, but in the humiliating failures of her attempts at self-government during the last two generations, in very great measure upon the defective education of her citizens. While the late Imperial Government was lavish in its expenditure of public treasure upon the pomps and luxuries of the court; upon artistic displays in palace picture galleries, and costly theatres, suited to feed the national vanity, dazzle the eyes, and amuse the fancies of a fickle and frivolous populace, public schools and colleges, and national universities vere left to struggle on in a state of inefficiency, for the went of the fostering care of those who should have given them a first
claim on the resources of the country. In times of trouble, secret wrongs, the follies and sins of nations, as well as indoviduals, come to light; and the world has been hearing with unfeigned indignation how the entreaties and protests of M. 1)ury, the Minister of lublic Instruction, were met by a (iovernment, among whom he had not, perhaps, an equal for intellect, sagacity and patriotism. Though backed by such men as Iules simon, Pretetin, and Favre, in the constant reiteration that "France must have millions for education, or else lose her name and fame and status in the world," yet the Government continued insanely deaf, and only under the greatest pressure could he squeeze from the state treasury the sum of $\$ 200,000$, for the 15,000 night schools for adults which he had succeeded in establishing. Then there was the whole system of public instruction to be reorganized, for which he could get nothime. The same (;overnment, without hesitation or murmur voted the sum of ten millions ot dollars to the new opera-houses for Parisian pleasure-seekers. In a bill for Universal Compulsory Education, like that of Prussia, the United States and Canada, he could not find a fellowminister tc support him, though the Emperor was far-sighted enough to recognize the wisdom of the measure. Where could such madness end, but sooner or later in ruin ?-a ruin which would impress the rest of the world with a most memorable lesson, through a self-sought conflict with, perhaps, the most generally and thoroughly, not to say highly, educated people on the earth. For many years, the national system of Prussian schonls has been the admiration, the envy, the model of other lands. Our own has to a great extent been formed from it, and in this, and more especially in the mother country, a soientific or literary education is scarcely con-
sidered complete without a term at some of the (ierman universities. In the little Duchy of Wurtemberg alone, it is said, more money was expended on superior education than in all France under the Empire. At Bonn, the other day, without thinking it anything out of the way, $\$ 100,000$ were employed merely for the construction of a chemical laboratory ! Was it any wonder, then, when the intelligence of (iermany was matched against the brute force of barbarian Zounves, Turcos, and Zephyrs from benighted Africa. united with the ignorant bourgeoise of the French provinces, and the still more degraded rabble trom the citues, that victory should perch upon the Teutonic standards? Had France done lon'r ago what she is now endeavouring to do, viz., to rescue her youth from the narrow and enfeebling regine of the ecclesiantic, as well : ; devising more liberal things for tiom nationally, it might have been very difftrent with her to day. England, warned by these and a variety of other considerations, has set herself in earnest to do what she had never yet done, justly famed as many of her schools and colleges have been, to organize a national system worthy of her advanced position in this advanced age!* Let Canada feel assured with regard to the many excellencies of her educational system in time past, and devise even yet more wise as well as liberal things for her youth in time to come. Nowe is a precious time when Confederation has placed in our hands the destinies of a young and growing nation, which has already shewn itself possessed in no mear degree of the qualities requisite

[^1]tn further greatness and power, and just now comung into possension of half a continent richly dowered by a beneficent Creator. Surely it were wise to give the very fullest consideration to the question of what kind of education is best sulted to meet the requirements of our case.

And now let us proceed to consider a few suggestions as to so:ne points in which our present system mught, with adventage, be improved and extended.

In entering upon the discussion of these points, we will tind it desirable to keep clearly before us what is imphed in the term education, as grave errors on this subject are but tou commoniy prevalent, and, with them, and consequent upon them, a lamentable waste of precious treasure and still more precious time and energy. The derivation of the word helps us to the simplest and most correct view of the subject. Eilucation, from the Latin ciluc, is the drawing out or devclopment of the natural gits of the intelligent sulbject. Conducted upon a moral basis, this process of course implies the fostering only of what is desirable, and the repression of what is evil and hurtful. It is in tact a process under which every school is literally, though not technically, a kindergarten, in which the instructor assumes the functions of "child-gardener," and with thoughtful,loving and earnest care devotes himself to that

> "Delightful tavk-
> Teaching the young idea how to shoot."

Patiently he watches for the first buddings of youthful capacity, and sedulously he seeks to train them up in the bright light and pure life of heaven, and so, to bring them to that pitch of perfection of which their inherent properties are capable under favourable influences. From this point of miew it is esident that, in its broad and full meaning, education must include the culture of all paits
of our nature, the physical and minal as well as the intellecinal. We are ton much acoustomed to think and spenk of man as a machine, like a clock or engine, contplex and intricate indeed, hut still a machine, readily divisible into parts which mey be handited or diseused quite independenti) the one of the other, forgetting that all the parts into which our nature is, for the ronvenience of sctence, theoretionlly divided, are organically, intimately, and inseparably united. and so inter-dependent that no satisfactory discussion or trentment of one set of orgens or faculties can afford to overlook the relation of these to the rest and the influence they mutually exercise the one upon the other. Yet no truth is more apr to be forgotten in edu ation, while none is more important to remember. Develop the body to the negl of of the higher nature, and you make a savage. Over. look the body and furce the mind, and the result is an unnatural monstrosity, the unequal balance of whose mature destroys the adjustment of his social relations, and bears him to a premature grave. A similar mistake may be made in spiritural culture with like unhealthy and unhappy results, of which the morbid fanatic is a not uncommon illustration. On the other hand, develop each in harmonious and proportionate measure, vigorously repress what is known to be hurtful, and the tendency is to produce a healthy, or in other words, a perfect man.

Not only should the nature of education, but its true object be kept distinctly in vied, viz., the training of our youth to become intelligent, selfreliant, enterprising and upright citizens. In view of this high aim may it not be fairly asked if there be not grave defects in our present system, in that important department which has to do with the moral elemeht in our nature? Not that too much is made of the mental faculties', but who
will say that suffrient attention is given to the cthical element in our showls and colleges? Upon the general braring of the subject a thnughtful writer has said, "Knowledge of itarlf, unless wisely direrted, might merely make bad men more diniserous, and the society in which it was regirded as the highest grood, little better than a pandemonium. Knowledge must be allied to goodness and wislom, and embodied in upright tharacter. else it is naught. The aequivition of knowledge may, it is truc, protert a man against the meaner felomies of life, but not in any degree against its selfish vices, unless fortifite by sound principles and babis. Hence do we find in daily life so many instances of men who are well-iniormed in intellect, but utterly deformed in chararter; filled with the learning of the schools, yet possessing little practical wisdom, and offering examples rather for warning than imitation." Pestalozzi, that pioneer educational reformer, to whose wisdom and zeal we owe so much, held intellectual training by itself in be pernicious, insisting that the roots of all knowledge must strike and feed in the soll of the religious, rightlygoverned will. It is true the subject is one of difficulty, but should it therefore be relegated to the region of insoluble prohlems? It is commonly disposed of by the argument that morality of the highest order, and on the soundest basis is only to be secured by the influence of religion, the teaching of which cannot bè undertaken by Government schools, but must be left to the Churches. Granted that the argument is relevant and conclusive as far as it goes, but it leaves room for a large amount of valuable teaching and training in fundamental morals of the utmost importance, especially, in view of the fact that there is a large section of our 'youth still beyond the influence of our Churchés
-a chass from whom the vicious and criminal ranks of society are everbeing recruited-who might be reached, and in large measure prewerved from wil by our present compulary system if amended in this respect and faithfully applied. Acknowl dee this in theory and the prastical application of it need not be difticult or lonad delayed. In the colleges we have admirable text-books, like Wayland's Moral Philosophy; why should we not have something similar, but rudimentary, for the public schools, say such a plain and simple treatise upon the ten commandments as the youngest reader, with the parents' and teachers' heip, might understand and profit by ; and then for the higher schools, somethiag intermediate between that und such books s Wayland's. Why nua? Let public opinion call for it, and our
teachers' associations recommend it, and (iovernment would soon enmply. Meantime let it be gencrally known that there is nothing in our axi,ting eanaments to prevent the lible being daily read, and prayer daily offered, and the ten commandments systematically taught, in our public schools (as we are glad to believe is already done in many of them), and thereby a most valuable and herlthful moral educational influence supplied. Moreover, this modicum of moral culture should not be left optional, but at once made binding upon all, and as speedily as possible supplemented in some such way as just indicated. Who will say that our present system is perfect? Who will not say that, if it can, it ought to be improved at a point where vital interests of the very first importance are involved.
(To be concluded inn nur next.)

## THE QUEBEC TEACHERS PENSION ACT.

by R. w. boodle, b.A., montreal.

TLE subject of a retiring pension for Public School teachers is one wbich is at lant attracting the attention of the public. Having noticed Mr. Bcyle's contribution to the subject in the October number of the Conapa Epucational Monthly, the writer considered that an abstract of the Act lately passed by the Quebec Gqvernment would be interesting to those qoncerned in edycation in the Hrovince of Ontario. The Act 43-44 Victoria, cap. xxii., is intituled, "An Act to establish a pension and beneyolent fund in favour of officers of primary, nstryuction", and peceived assent pn July $24 t h, 4880$. It was the subject of a paper by Dr. Miles, of

Quebec, at the Provincial Convention of Protentant Teachers, held at Mfontreal in the month of October, and was fully discussed at the meeting, where a committee was appointed to frame resclutions and offer suggestions to the Guvernment.

The followng digest contains all matters of importance:

1. Officers of Primary Instruction. - This term includes "school inspectors, professurs of normal schools, holding diplomas, and male and female certificated teachers, teaching in an instituttion under the cuntrol of school: commissiugers or trustes, or subsidized by them. or by the Gavernment, but does, not includf, mumbers
of the elergy or religious communitics."
2. The Tension Fund.-To provide for pensions.
(1) A reduction or stoppage of two per cent. per annum to be made from all sataries. This is to be taken half. yearly by the Superintendent of Public lastruction out of the gram. (c. 10.)
(2) A stoppage of one per cent. to be made amually from the "Common School" and from part of the "Superior Education" Funds.
(3) An anmual grant of one thousand dollars per annum to be made by the Government of the Province.
The amount thus raised to be converted into Provincial or Dominion bonds, and held in trust by the Treasurer of the Province strictly for the purposes of the Act. If after five jears the interest be not sufficient to pay pensions, the stoppages from salaries of officers to be increased. (c. 12.)

Nore.-Salaries to be estimated by the School Inspectors of 1) ivivions and to be held to include lolging, board and fuel, when given as such. (c. 17-18.)

## 3. Nature of Pcusion.

(1) The pension to be annual, "based upon the average amount paid to officer during the years he has passed in teaching and for which he has paid the stoppages." (c. 2.)
(2) Such pension not to exceed the following rates, viz.:
(a) For full service of ten years, one-fourth of average salary.
(b) One-fortieth of average salary to be added for every additional year.
(c) Eor forty years' service full average salary to be paid ; no additional grant for service over forty years. (c. 2.)
(3) Pensions shall not be assignable or sulbject to scizure. (c. 14.)
4. Opficers cntitlcal to pension.
(i) No person entitled in pension for year for which stoppage has not been paid (pars.).
(2) Claim to name being placed on the pension list, to be based on five years' previous service. (c. 4.)
(3) All who have been employed as officers for a term of ten years or upwards, and who have reached the age of fifty-eight years are entitled to retiring pension. (c. 2.)
(4) Also such as have been employed during thirty years, whatever may be their age. (c. 3.)
(5) Also after ten years service, such as are unable to remain in the service, owing to serious injury or enfeebled healthincurred through no fault of their own. (c. 5.)
(6) From the age of eighteen all years passed in teaching or as a normal school pupil shall be included in the years of service, at the time of establishing the amount of pension. (c. 9.)
(7) Former service counted before the Act, provided the stoppages be paid for such period within five years after its sanction. (op 10.)
(8) Payments under pension fund of $x 856$ counted as payments under this Act. (c. xi.)
(9) Right to claim pension as well as to amounts paid to the pension fund to be forfeited by dismissal or resignation, except: for approved reasoms, and in the case of one temporarily accepting a position in an independent school and regularly paying the stoppages. (c.:15, 24.)

## 5. Widones and Children of Pctsioners.

(1) The widow of an officer in reript of or entitted to clatm a prasion to be entitled to onehalf of his pension, ( t ) if married to him six years before his retirement or death in the service. (a) if still unmarried. (c. $6,7$.
(2) Where no widow's pension is paid, children of officers are entitled to pension till the age of eiphteen, to the amount of widow's pension. The sum to be divided equally among all below the specified age-the share of those dying or attaining age to devolve upon the others. (c. 8.)
6. Detatls of Working.
(1) Pensions to be forfeited if un-
claimed for three years, and repincement on the pension list d. es not entiite pensioners to arrears is. -9)
(2) Full sertificates required of ofticers, widows or children claiming pensions or reversions of penstons. (c. 20 21, 22, 23.)
(3! This Ant does not apply to teachers already superannuated. (25.)
(4) No pension to be paid for five years after the sanction of the Act, and teachers dying within such period lose their right to pen:ion, though their heirsmay recover the amounts paid to pension iuad. (c. 26, 27.)
(5) Orders or regulations to enforce the Aet to bedrawn up by the Superintendent of Public Instruction. (c. 28.)

# AN ESSAY ON PUNCTUATION.* 

(Continucd from page 497.)

## v.

## RELATIVE; CLAUSES.

RELATIVEclauses whichare merely explanatory of the antecedent, or which present an additional thought, are separated from the context by a comma or commas (a); but relative clauses thich are restictive, that is, which limit or determine the meaning of the antecedent, are not so separated (b).
(a) His stories, which made evergbody laight, were often made to order.
(a) At five in the morning of the seventh,

[^2]Grey, who had wandered from his friends, was scized by two oi the Sussex scouts.
(a) His voice, swhich was so pleasing in privale, weas too weak for a public occasion.
(a) In times like these, when the passions are stimnlated, froth is forgotten.
(a) The leaders of the parly, by whom this plan had been deoised, had been struggling for seven years to organize such an assembly.
(a) We not only find Erin for Ireland, whtere brevity is in favour of the substitution, but also Calcdonia for Scotland.
(b) He did that which he feared to do.
(b) He zoho is his own lawyer is' said to have a fool for a client.
(b) The uproar, the blood, the gashes, the
ghastly figures which sank down and never rose again, spread horror and dismay through the town.
(b) Those inhabitants who had favoured the insurrection expected sack and massacre.
(b) The extent to which the Federalists yielded their assent would at this day be incredible.
(b) I told him zwhere that opposition must end.
(b), (a) Those Presbyterian members of the House of Cominons who had been expelled by the army, returned to their seats, and were hailed with acclamations ly great multitudes, which filled Westminster Hall and Palace Yard.

## VI.

PARENTHETIC EXPRESSIONS.
Parenthetic or intermediate expressions are separated from the context by commas (a), by dashes either alone (b) or combined with other stops (c), or by marks of parenthesis [( )] (d). The last are less common now than they were formerly. The dash should not be used too frequently, but it is to be preferred to the comma when the latter would cause ambiguity or obscurity, as where the sentence already contains a number of commas (e).

Brackets [] are used when words not the author's $(f)$, or when signs $(g)$, are inserted to explain the meaning or to supply an omission. Sometimes also brackets are needed for clearness ( $h$ ).
(a) The difference, therefore, between a regiment of the foot guards and a regiment of clowns just enrolled, thougth doubtess considerable, was by no means what it now is.
(a) The English of the North, or * Northumbrian, has bequeathed to us few monuments.
(b), (a) It will-I am sure it will-more and more, as time goes on, be found good for this.

[^3](c) When he was in a rase, -and he very often was in a rage, -he swore like a porter.
(c) They who thought her to be a great woman, -and many people did think her to be great,-were wont to declare that she never forgot those who did come, or those who did not.

1
(d) He was received with great respect by the Minister of the Grand Duke of Tuscany ( $w^{\prime} / h o$ afterwards mounted the Imperial throne), and by the ambassador of the Empress Queen.
(d) Circumstances (which with some gentlemen pass for nothin..) stive in reality to every political principle its distinguishing colour and discriminating effect.
(d) If it is thue, as this new teacher says, that the artist is the product of his time, it is evident (they will enfer) that no modern artist can become like the product of another time.
(e), (a) In the insurrection of provinces, either distant or separated by natural bound-aries,-more especially it the inhabitants, differing in religion and language, are rather subjects of the same government than portions of the same poople,--hostiitities which are waged only to sever a legal tie may assume the regularity, and in some measure the mildness, of foreign war.
( $f$ ) The chairman of our Committee of Foreign Relations [1Ir. Eppes], introducid at this time these amendments to the House.
(s) [See brackets enclosing the parenthetic signs in VI., line 5.]
(h) $[A ;$ here and in ( $g$ ), to shew that these are not examples, but references.]

The principle which requires parenthetical expressions to be set off by marks of punctuation,-a principle underlying II., III., IV., and V. (a), as well ot VI.,--founded though it is in the obvious utility of separating from the rest of the sentence words which interrupt the continuity of thought, and can be removed without impairing the grammatical structure, may occasionally be violated to advantage ; as, for example, by the omission of commas before and after the
words "though it is," in the fifth line of this praragraph. So, 200, in the first line of XIV., the parenthetical expression, "either alone or combined with other stops," is set off be commas; but, in the third and fourth lines of VI., the same expression is written without the first comma, because by the omission the expression is made to qualify "dashes" only. In the clanse, "after a brief hut most disastrous reign" (II. b), the words "but most disestrous" arc parenthetical; but marks of parenthesis can well be spared, the clause is so brief.

## VII.

## ELi.IPTICAI SENTENCES.

A comma is often required to indicate an cllipsis. (a) ; but the comma, if not needed to make the sense clear, may be dispensed with (b). Where the ellipsis is of the expressions that is, namely, and the like, a point is always required: in some cases a comma is to be preferred ( $c$ ), in others a comma and dash ( $d$ ), in others a colon ( $c$ ).
(a) Aimicsion, s:menty-firic cents.
(a) He was born at the old homestead, Mary 7. 1533. He always lived in Newupol, Sthode Istand, Unilid States of America.
(a) Its political maxims are invaluable; its exhurtations to love of country and to brotherly affection among citizens, touching.
(a) With a united government, well administered, he snw that we had nothing to fear; and with uat it, nothing to hope.
(b) On the best lines of communication the ruts were detp, the descents precipitous, and the atay often such as it was hardly possible to distinguish, in the dark, from the unenclosed heath and fen which lay on both sides.
(b) Hancock served the cause with his libberal opulence, Adamts with his incorruptible poverty.
(c) This saene admits of but one addition, that we are misgovernetl.
(d) This teplorable serne admits of but none addifion, -dint we are gmeerned by rouncils from which a reasonalile man can expect no remedy lut prison, no relief inut dralh.
(c) One thing is supe: the hill will not pass.

In both the examples under (b), the insertion of commas between the italicized words would, on account of the proximity of other commas, create obscurity and offend the eye; in the third and fourth examples under (a), this objection does not hold.

## vilt. <br> DFPENDENT CLAUSES.

A comma is used between two clauses, ne of which depends on the other (a). If, however, the chuses are intimately connected in both sense and construction, the comma is often omitted (b).
(a) Though herself a model of personal beaufy, she was not the gholdess of beauty.
(a) Had a conflict once begart, the rage of their persecutors would have redoubled.
(a) If nur will be readr, one yowers ate not deficient.
(a) As soon as his decinration was khoour, the whole mation was witd with delight.
(a) White France was wasted by zear, the English pleaded, traded, and studied in secority.
(b) The Board may hardly be remindat that the power of expending any portion of the primeipal of our fund expired at the end of two years.
(b) And loved her as he loved the light of heaven.
(b) We wished to nssociate with the oceant suntil it lost the pond-like look which at wears to $a$ countryman.
(b): You may go if you will.
(b) I doubt whether he saw the true limits of taste.
(6) Then Shakespeare is a genius because he can be translated into German, and not 2 genius because he cannot be translated into French.

These examples shew that, if the dependentclause comes first, a comma is usually required; but that sometimes one is not required if the dependent clause comes immediately after the clause on which it depends. In the furmer case, the word which makes the connection between the two clauses is at a distance from the words it connects; in the latter case, it stands between or at least near the words it connects.

## Ix.

## Independent clauses.

A point is required between two independent clauses connected by a conjunction, -such as for, and, but, or $y e t$,-in order to render it certain that the conjunction does not serve to connect the zordsbetween which itstands. If the sentence is a short one, and the clauses are closely connected, a comma is sufficient (a) ; in other cases, a semicolon [;] (b) or a colon [:] (c) is required. *
(a) I had now a .aind to try how many cobwebs a single spider could furnish; wherefore I destroyed $t$ this, and the insect set about another.
(a) There was a lock en the door, but the key was gone.
(a) Learn to live zoell, or fairly make your will.
(a) The lock went hard, yet the key did open it.
(a) He smote the rock of the national resources, and abundant streams of revenue gushed forth. He tonched the dead corpse of the Public Credit, and it sprung upon its feet.
(b) This was the greatest victory in that war, so fertile in great exploits; and it at once gave renown to the Admiral.
(b) So end the ancient voices of religion and learning; but they are silenced, only to revive more gloriously elsewhere.

[^4](a), (b) The very idea of purity and disinierestedness in politics falls into disrepute, and is considered as a vision of hot and inexperienced min; and thas disorders become incurable, not by the virulence of their own quality, but by the unapt and violent nature of their remedies.
(c), (b) The Mohawks were at first afiaid to come: but in April they sent the Flemish Bastard with overtures of patace; amd in July a large deputation of their chiefs appeared at Quebec.
(a), (c) His friends have given us materials for criticism, and for these we ought to be grateful ; his enemies have given us negative criticism, and for this, up to a certain point, we may be grateful: but the criticism we really want neither of them has yet given us. $\dagger$

## x.

## DEPENDENT EXPRESSIONS IN A SERIES.

Semicolons are used between expressions in a series which have a common dependence upon words at the beginning $(a)$ or at the end (b) of a sentence.
(a) You could give us no cummission to wrong or oppress, or even to suffer any kind of oppression or wiong, on any grounds whatsoever : not on pulitical, as in the affairs of America; not on commercial, as in those of Ireland; not in civil, as in the laws for debt: not in religious, as in the statutes against Protestant or Catholic dissenters.
(a) They forget that, in England, not one shilling of paper-money of any description is received but of choice; that the whole has had its origin in cash actually deposited; and that it is convertible, at pleasure, in an instant, and without the smallest loss, into cash again.
(a) In this choice of inheritance we have given to our frame of polity the image of a relation in blood: binding up the Constitution of our country with our dearest domestic ties; adopting our fundamental laws into the busom of our family affections; keeping in-
$\dagger$ Sec also XII. (a), p 549.
separable, and cherishing with the warmth of all their combined and mulually reflected charities, our State, our hearths, our sepulchres, and our altars.
(b) The ground strewed with the dead and dying: the impetuous charge ; the steady and successful repulse: the loud call to repented assautt ; the summoning of all that is manly to repeated risistance: a thousand bosoms freely and fearlessly bared in an instant whatever of terror there may be in war and death;-all these you have witnessed, but you witness them no more.
(b) How we have feared since then-what woeful variety of schemes have been adopted; what enforcting, and what reptalins; what doing and zutdoing; what shiftings, and changings, and jumblings of all kinds of men at home, which left no posibility of order, consistency, or vigour-it is a tedious task to recount.

> XI.

## SUCCESSIVE SHORT SENTENCES.

Either semicolons or colons may be used to connect in form successive short sentences which are, though but slightly, connected in sense. Semicolons are usually preferred where the connection of thought is close $(a)$; colons, where it is not very close (b).
(a) The united fleet rode unmolested by the British; .Sir Charles Hardy either did not or would not see them.
(a) Such was our situation: and such a satisfaction was necessary to prevent recourse to arms: it was necessary toward laying them down; it will be necessary to prevent the taking them up again and again.
(a) Mark the destiny of crime. It is ever obliged to resort to such subterfuges; it trembles in the broad light; it betrays itself in seeking concealment.
(a) The women are generally pretty; few of them are bruncttes; many of them are dis. creet, and a good number are lazy.
(a) He takes things as they are; he submits to them all, as far as they go; he recog. nizes the lines of demarcation which run between subject and subject.
(b) Very few faults of architecture are mistakes of honest choice: they are almost all hypocrisies.
(b) The same may be said of the classical auriters: Plato, Aristotle, Lucretius, and Seneca, as far as I recollect, are silent on the subject.
(b) Compute your gains: sec what is got by those extravagant and presumptuous speculations which have taught your leaders to despise all their predecessors.
(b), (a) The professors of science who threw out the general principle have gained a rich harvest fiom the seed they sowed: they gave the principle; thei' got back from the practical telegrapher accurate standards of measurement.*

## XII.

## COMPOUND SENTENCES.

Colons are used between two members of a sentence, one or both of which are composed of two or more clauses separated by semicolons (a); semicolons, or very rarely colons, between clauses, one or both of which are subdivided by a number of commas (b). The relations which the several parts of the sentence bear to one another are thus clearly indicatec.
(a) Early reformations are amicable arrangements with a friend in power; late reformations are terms imposed upon a conquered enenty: early reformations are made in cool blood; late reformations are made under a state of inflammation.
(a) We are seldom tiresome to ourselves; and the act of composition fills and delights the mind with change of language and succession of images: cvery couplet when produced is new ; and novelty is the great source of pleasure.
(a) There seems to have been an Indian path; for this was the ordinary route of the Mohawk and Oncida war-parties: but the path was narrow, broken, full of gullies and pitfalls, crossed by streams, and in one place

[^5]interrupted by a lake which they passed on rafts. *
(b) He was courteous, not cringing, to superioes: affoble, not familiar, to cinuals; and kind, but not condescending or supercilious, to inferiors.
(b) Death is there associated, not, as in Westminister Abbey and St. Paul's, with genius and virtue, with public vencration and with imperishable rentorn; not, as in our humblest churches and churchyards, with everything that is most endearing in sociai and domestic charities; but with whatever is darkest in human nature and in human destiny.
(b) Therefore they look out for the day, when they shall have put down religion, not by shutting its schools, but by emptying them ; not by disputing its tenets, but by the superior weight and persuasiveness of their own.

## XIII.

## FORMAL STATEMENTS ; QLOTATIONS.

The colon is used before particulars formally stated (a). The colon (b), the comma (c), or the dash combined with the colon ( $d$ ) or with the comma (e), is used before quotations indicated by marks of quotation [" "]. $\dagger$ The dash is generally used before a quoted passage which forms a new paragraph ; it is joined with the comma when the quotation is short, with the colon when it is long. If the quotation depends directly on a preceding word, no stop is required $(f)$.
(a) So, then, these are the two virtues of building : firs', the signs of man's own good work; secondly, the expression of man's delight in work better than his own.
(a) Again: this argument is unsound because it is unfounded in fact. The facts are such as sustain the opposite conclusion, as I will prove in a very few words.
(b) Toward the end of your letter, you are pleased to abserwi: "The rejection of a

[^6]treaty, duly negotiated, is a serious question, to be avoided whenever it can be without too great a sacrifice. Though the national faith is not actually committed, still it is more or less engaged."
(c) When the repast was about to commence, the major-domo, or steward, suddenly raising his wand, said aloud, "Forbear / - Place for the Lady Rowema."
(d) Alice folded her hands and began: -
"You are old, Father William," the young man said,
"And your hair is uncommonly white . . ."
(e) Shakespeare wrute the line, -
" The evil that men do lives after them."
( $f$ ) The common people raised the c:y of "Doturn with the bishops."
$(f)$ It declares that "ruar exists by the act of Mexico."
xiv.

THE DASH.
The dash, either alone or combined with other stops, is used where the construction or the sense is suddenly changed or suspended (a); where a sentence terminates abruptly (b) ; for rhetorical emphasis (c); in rapid discourse (d) ; where words, letters, or figures are omitted ( $c$ ); and between a title and the subject-matter ( $f$ ), or the subject-matter and the authority for it $(g)$, when both are in the same paragraph,
(a) The man-it is his system : we do not try a solitary word or act, but his habit.
(a) Consider the Epistle to the Hibreauswhere is there any composition more carefully, more artilicially, written?
(a) Rome,-what was Rome?
(a) To let loose hussars and to bring up artillery, to govern with lighted matches, and to cut and push and prime, $-I$ call this, not vigour, but the sloth of cruelty and ignorance.
(b) "Long, long will I remember your features, and bless God that I leave my nóble deliverer united "with "-
Shic topped shoŕt.
(c) I cannot forget that ve are men by a more sacred bond than we are citizens,-that we are children of a conamon Father more than we are Americans.
(c) What shall become of the poor,-the increasing Standing Army of the poor?
(d) Hollo! ho! the whole world's astien ! -bring ont the horses,--rrease the wheels, tie on the mail.
(c) In the first place, I presume you will have no difficulty in breaking your word with Mrs. C- $\quad$.
(e) $1874-76$.
( $f$ ), (g) Di-a-na. -The usual pronunciation is Di-an-a.-Smart.
$(s)$ The Eastern and the Western imagination coincilk.-Stanley.

## Xv .

PERIOD, NOTE OF interrogation, and note of exclamation.
At the end of every complete sentence, a period [.] is put if the sentence affirms or denies; a note of interrogation [?], if the sentence asks a direct question; a note of exclamation [!], if the sentence is exclamatory. Interrogation or exclamation points are also used in the body of a sentence when two or more interrogations (a) or exclamations (b) are closely connected.
(a) For what is a body but an ag regate of individuals? and what new right can be conveyed by a mere change of name ?
(b) How he could trot! how he could run !

## XVI.

abbreviations and headings.
Periods are used after abbreviations (a), and after headings and sub-headings (b). Commas are used before every three figures, counted from the right, when there are more than three (c), except in dates (d).
(a) If gold were depreciated one-half, $3 l$. would be worth no more than Il. IOs. is now.
(a) To retain such a lump in such an orbit requires a pull of 1 lb .6 o .5 I grs.

## (b) Words Defined by Usace.

(c), (d) The amount of stuck issued by the several States, for each period of five years since 1820 , is as follows, viz.:-
From 1820-1825 somewhat ver $\$ 12,000,000$.

| " | $1825 \cdot 1830$ | " | " | $13,000,000$. |
| :--- | :--- | :--- | :--- | ---: |
| $"$ | $1830 \cdot 1835$ | " | $"$ | $40,000,000$. |
| " | $1835 \cdot 1840$ | " | $"$ | $109,000,000$. |

## XVIt.

## MARKS of quotation.

Expressions in the language of another require marks of quotation [""] $(a)$. Single quotation points ["] mark a quotation within a quotation (b). If, however, a quotation is made from still a third source, the double marks are again put in use (c).

Titles of books or of periodicals ( $d$ ), and names of vessels (e) usually require marks of quotation, unless they are italicized. Sometimes, however, where they occur frequently, or in foot-notes, titles are written in Roman and capitalized $(f)$.
(a) [See XIII. p. 550.]
(b) Coleridge sneered at " the cant phrase ' made a great sensation.'"
(c) "This friend of humanity says, "When I consider their lives, I seem to see the "golden age " beginning again.'"
( $d_{1}$ " Waverley" was reviewed in "The Edinburgh."
(c) "The Constitution" is a famous ship of war.
( $f$ ) [See foot-notes in this essay.]

## xVili.

## THE HYPHEN.

The hyphen [-] is used to join the constituent parts of many compound (a) and derivative (b) words; and to divide words, as at the end of a line (c).
(a) The incense-breathing morn.
(a) He wears a broad-brimmed, low-crowned hat.
(b) The Vice-President of the United States.
(c) [Sce "ind-terrogation" under XV., third line; "sub-head-ings under XVI., second line.]

## xix.

## THE APOSTROPHE

The apostrophe ['] isused to denote the elision of a letter or letters (a), or of a figure or figures (b); to distinguish the possessive case (c) ; and to form certain plurals, ( $d$ ). The apostrophe should not be used with the pronouns its, ours, and the like (c).
(a) 'Tis James of Douglas, by saint Serle!
(a) The O'Denoshue was a broth of a boy-
(a) What oclock is it ?
(a) Hop $\cdot \sigma^{\prime}-m y$ thumb is an active little hero.
(b) Since that time it has been re-observed on every subsequent revolution, - in '22,'25.
(b) The patriots of 7 ' ${ }^{\prime}$.
(c) Spenser's adulation of her beauty may be extenuated.
(c) The Seven Yaars' war was carried on in America.
(c) The $\overline{\text { Joncses's }}$ dogs are on good terms with Mrs. Barnard's cat.
(c) Ladiis' and stintlimen's boots made to order.
(c) The book can be found at Campbell \& Son, the publishers'.
(c) The fox's tail was accordingly cut off.
(c) For conscience' sake.
(d) Mark all the $a$ 's in the exercise.
(d) Surely long s's ( $f$ ) have, like the Turks, had their day.
(e) Its [not it's] length was twenty feet.
(e) Tom Burke of Ours'.

It is sometimes a question whether to use the possessive with an apor. trophe, or to use the noun as an adjective. One may write, -

John Brown, Agent for Smith's Organs and Robinson's Pianos :
$d r$,
John Btown, Agent for The Smith Organ and The Robinson Piano.

The latter form is preferable.
xx.
punctuation in the service of the Eve.
(i) A comma sometimes serves to distinguish the component parts of a sentence from one another, thus enabling the reader more readily to catch the meaning of the whole. Where, for example, a number of words which together form the object or one of the objects of a verb, precede instead of following the verb, they should be set off by a comma when perspicuity requires it (a) ; but not otherwise (b).
(2) A subject-nominative may need to be distinguished from its verb, either because of some peculiarity in the juxtaposition of words at the point where the comma is inserted $(c)$, or because of the length and complexity of the subject-nominative (d).
(3) When numerals are written in Roman letters instead of Arabic figures, as in references to authorities for a statement, periods are used instead of commas, both as being in better taste and as being more agreeable to the eye. For the same reason, small letters are preferred to capitals when the references are numerous (c).
(a) Even the kind of public interests which Englishmen care for, he held in very little esteem.
(a) To the tender and melancholy recollections of his early days with this loved companion of his childhood, we may attribute some of the most heartfelt passages in his " Deserted Village."
(b) Even his country he did not care for.
(b) To devout woinerz she assigns spiritual functions, dignities, and magistracies.
(c) How much a dunce that hasbeen sént to roam,
Excels a dunce that has been kept at $\because$ home!
(c) One truth is çlear, Whatever is, is right.
(d) The same modification of our Germanism by another force which seems Celtic, is visible in our religion.
(d) To allow the slave-ships of a confederation formed for the extension of slavery to come and go frec and unexamined between America and the African coast, world be to renounce even the pretence of attempting to protect Africa against the man-stealer.
(d) Those Presbyterian members of the House of Commons who had many years before been expelled by the armb, returned to their seats.
(c) Macaulay: Llistory of England, vol. i. chat. : i. pp. 60, 65. [Sce also notes throughout this essay.]
(c) Deut. xizi. 19 ; John vi. 58.

## SIR WALTER SCOTT'S MATURER POEMS.-II.

(Continued from page 5ro.)

BUT admirable in its stern and deep excitement as that is, the battle of Flodden in "Marmion" passes it in vigour, and constitutes perhaps the most perfect description of war by one who was-almost-both poet and warrior, which the English language contains. And "Marmion" registers the high-water mark of Scott's poetical power, not only in relation to the painting of war, but in relation to the painting of nature. Critics from the beginning onward have complained of the six introductory epistles as breaking the unity of the story. But I cannot sce that the remark has weight. No poern is written for those who read it as they do a novelmerely to follow the interest of the story; or if any poem be written for such readers, it deserves to die. On such a principle-which treats a poem as a mere novel and nothing elseyou might object to Homer that he interrupts the battle so often to dwell on the origin of the heroes who are waging it; or to Byron that he deserts Childe Harold to meditate on the rapture of soltitude. To my mind, the ease and frankness of these confessions of the author's recollections give a picture of his life and character
while writing " Marmion," which adds greatly to its attraction as a poem. You have a picture at once not only of the scenery, but of the mind in which that scenery is mirrored, and are brought back frankly, at fit intervals, from the one to the other, in the mode best adapted to help you to appreciate the relation of the poet to the poem. At least if Milton's various interruptions of a much more ambitious theme, to muse upon his own qualifications or disqualifications for the task he had attempted, be not artistic mistakes-and I never heard of any one who thought them so-I cannot see any reason why Scott's periodic recurrence to his own personal history should be artistic mistakes either. If Scott's reverie was less lofty than Milton's, so also was his story. It seems to me as fitting to describe the relation between the poet and his theme in the one case as in the other. What can be more truly a part of "Marmion," as a poem, though not as a story, than that introduction to the first canto in which Scott expresses. his passionate sympathy with the high national feeling of the moment, in his tribute to Pitt and Fox, and then reproaches himself for
attempting so great a subject and returns to what he calls his "rude legend," the very essence of which was, however, a passionate appeal to the epirit of national independence? What can be more germane to the poem than the delineation of the strength the poet had derived from musing in the bare and rugged solitudes of it. Mary's lake, in the introduction to the second canto? (Or than the striking autobiographical study of his own infancy which I have beiore extracted from the introduction to the third? It seems to me that "Marmion" without these introduction; would be like the hills which borker Yarrow, withont the stream and lake in which they are reflected.

Never at all events in any later poem was Scott's touch as a mere painter so terse and strong. What a picture of a Scotch winter is given in these few lines:
"The sheep before the pinching heaven To shetterd date and down are driven, Where get some faded herbage pines, And get a watery sumbram shines: In meek despundency they eye The witherd sward and wintry sky, And trom benrath their summer hill siray sadly by Glenkinnon's rill."
Again, if Scott is ever Homericwhich I cannot think he often is, in spite of Sir Francis Doyle's able criti-cism- (he is tor) short, too sharp, and too eagerly bent on his rugged way, for a poet who is always delighting to find loopholes, even in battle, from which to look out upon the great story of human nature), he is certainly nearest to it in such a passage as this :
> "The I, le-men carried at their backs The ancient Danish batle-axe. They raised a wild and wondering cry As with his guide rode Marmion by.
> Loud were their clanouring tongues, as when
> The clanging sea-fowl leave the fen, And, with their cries discordant mix'd, Grumbled and yell'd the pipes betwixt."

In hardly any of Scott's poetry do we find much of what is called the
curbisa filiciates of expression - the magic use of arords, as distinguished from the mere neneral offe of vigour. purity, and cone entration of purpose. But in "Marmion" ocrasionally we do find such a use. Take this description, for instance, of the Scotch tents near Edinburgh :
> ". Ithousand didl say? I ween Thomands on thousamb there were seen, That cherguerd all the heath tetween The steamlet and the town; In crowing rank exterding far, Forming a ramp irregular: Oft givng way where till there vond Sime telies of the ohd oak word. That dathly huge did intenvene. And tamet the slan ins white wift grect: In these extended lines there lay, A martial kinglom's vast army."

The line I have italicized seems to me to have more of the poet's special magic of expression than is at all usual with Scutt. The conception of the peaceful green oak-wood taming the glaring white of the tented field is as fine in idea as it is in relation to the effect of the mere colour on the ege. Judge Scott's poetry by whatever test you will-whether it be a test of that which is peculiar to it. its glow of national feeling, its martial ardour, its swift and rugyed simplicity, or whether it be a test of that which is common to it with most other poetry, its attraction for all romantic excitements, its special feeling for the pomp and circumstance of war, its love of light and colour--and tested either way, " Marmion" will remain his finest puem. The "Battle of Flodden Field" touches his highest point in its expression of stern patriotic feeling, in its passionate love of daring, and in the furce and swiftness of its movement, no less than in the brilliancy of its romantic interest, the charm of its picturesque detail, and the glow of its scenic ćolouring. No poet ever equalled Scott in the description of wild and simple scenes and the expression of wild and simple feelings.

But I have said enough now of his poetry, in which, good as it is, Scott's genius did not reach its highest point. The hurried tramp of his somewhat monotonous metre is apt to weary the ears of men who do not find their sufficient happiness, as be did, in dreaming of the wild and daring enterprises of his loved Burder-land.

The very quality in his verse which makes it seize so powerfully on the imaginations of phain, bold, adventurous men, ofien makes it hammer fathguingly arainst the brain of those who need the relict of a wider horizon and a richer world.-- From Hutton's Sioth, in Morley's English Mcn of I.ctters Series.

## THE PHYSICAL EDUCATION OF GIRLS.--III.

## (Contivued from page 513.)

THUS far I have said nothing about systems of gymnartics or direct methods of physical training for girls, holding it, as I do, to be better and more natural to let tiaem develop in as much freedom from artificial restraints as possible, and being fully persuaded that the various activities of healthy, happy, and cultured country life are in themselves sufficient to train the senses, and to train the muscular system and bring it into subjection to the will, to do which is the essential object of all physical education. If, however, from motives of convenience or necessity, children are brought up intowns, artificial methods of physical training must needs be resorted to, in order to supply the place of natural ones; and it becomes a subject of national importance to study the best gymnastic methods and appliances, to understand clearly the reasons for them, and why it is undesirable to put boys and girls through exactly the same course of gymastics.

The training of the senses requires no special adaptation for boys or for girls, the element of sex not entering in heree at all. To teach the sye to see properly surrounding objıcts, the
ear to hear and discriminate sounds discordant or harmonious, and gradually to educate it up to a preception of the beautics first of simple melody and later on of more complicated musical combinations; to tearh the palate to choose and to enjoy harmless, in preference to harmful, frod and drink; to train, in short, all the senses to be keen and quick in action, and fuithful ministers merposed between the soul and the outer world, is the office of the ellucator of the youth of both sexis, and need not now occupy us, wh., have met to consider physical education in its special bearing on girl.

Grils feel not pleasure in taking more phy-ical exercise than therr frame is fitted for, anv more than a healthy palate prompts to $g$ uttony or excess. I'here are natural arj stments and instincts of propriety which may safely be trunted to choo-e what is really befit ing to girls and boys. But if children are taken out of their natural medium, country life, and bred in cities, with artificial gymnastics to develop and strengthen their muscles, th. $n$ it becomes ne cossary to stuily carefully and $t$. follow faithfully the diffurences which sex
has implanted boys and gits, and it behoves us to beware that we respect in our systems of physical education the laws of development of each sex.

We have then to consider that, from their general conformation and the special maternal functions for. which nature is slowly and silently fashioning them, gymnastic exercises for girls must be less violent, perhaps more fréquent, but certainly less prolonged, than those designed for buys.., In later girlhood girls may even require occasional short internittences on account of temporary weakness or trifling indispositions, whence it is obvious that it is mist consistent with delicacy and propriety that the gymuastic exercises of grls shiuld be performed under the direction of thoroughly qualined and efficient women teachers, who cin best estim te the varying physical capaciy of the developing girl, and who can, as a matter of course, question hir pupils on health subjects which cannot with any proprety be diocussed by a man with young jirls. Ar in, int, the question of gym astics for girls the consideratio: of the relatively large size of their pelvis, the position of the orgaus contained in it, and their liability to congestion, displacement and strain in consequence of ill-directed gymnastic exercise, or still more pernicious rivalry between girl: of unequal physical power, enters largely. in short, the gymnastic training of girls ipvolves so many questions of detail and of compromise between the general and the particular that I fuil to see how any one but a woman, qualified for the work by nature and by the best and most thorough training, can carry it out satisfactorily. A woman also can far more effi iently than a man train young women teachers, appreciating, as she only can do, the weariness and actual hard work that it is to them. with their consolidated frames
and aspedient msper homi and disohedient muscles, to master exergises which are mêre chidd'silhay to supple young firls.

Sotar Ling p, xarcises, the somaled Swedish gmaastics have peen found most suitable for girls but I contess Itook forward to time when spme woman of genlus shall, with alt the learning of the schools at her command, joined to her own special feminine instinet, have given us something even better and more completely adapted to the requirements of girls'than Lug's system of gymnastics.

In all system of gymnastics-and perhaps this is more necessary for girls than for boys, as women's lives are spent more at home, and manual dexterity is of even more mopent to them than to men on account of the variety of work for which handiness is demanded in a household, although, alas ! it is often demanded in vain-training of the hand ought to huld a prominent place.

The left hand especiaily requires to be reinstated in its natural pusition of equal co-operation with the right from which centuries of misdirected educational efforts have driven it. instead of striving to prevent a child from making use of its left hand, and forcing it th use almost exclusively the right, our endeavour should be to make it equally expert with both hands, not alone for the sake of the increased capacity for all kinds of manual work thus g iened, but also as a means of indirectly developing the right or correspon ling half of the brain, on which musculir activity reacts as a powerful stimulus. Education has taken a direction so entirely false in resard to the left hand that it has creited a wholly arificial neçessity for special left hand gymuastics, to counteract not only actual wrong teaching but inherited wrong tendencies ; for the very slight preference which perhaps a smatl majority of infants give to the right hand over the
left would never, without the injudicious fostering of parents, have resuft"ed in that maimiug of the "race which righthandedness implies. That the disability is an artificial and not a natural one is proved by the fact that energetic individual's onde as righthanded as their fellows do sometimes teach themselves to become amblidexter when circunstances make it desirable or necessary; and that they should be able to so is the less to be wondered at when we reflect that there has been in our own day such a prodigy as an artist of considerable merit, born without hands, who painted his pictures with his feet, which 1ong use had rendered as deft as other peóple's hands.

In estimating the advantiges girls would derive from a rati nal system of physical education, it is uften overlioked that, apart from the general advantage to all homan beings of well-devchoped mu-cles, and the importance of muscolar exercise as a promoter of the van us circulation, together with its strengthening and steatying influence on the nervous system, muscular exercise retards the advent of puberty by directing an abund int supply of blood to the active muscles, whereas muscular inactivity fav surs congestion of interual organs, precocious sexual development, with all its long train of physical and moral evils, and that hydra-headed parent of female ailments in civilized communities, instability of the nervous system, or disturbed equilibrium of the mutor and sensory divisions.

The special duties of women make large calls on muscular strength ; and if in childhood the oppotunity, afforded of developing it is missed, how can these claims be met? Is it not pitiable to see yearly thousands of mothers break down under the burden of maternity borne fur the first or second time, while it is no exaggeration to say that not twenty per cent.
of English mothers belonging to the upper classes of society are phy ically capable of carrying about in their arns their own pabies, but must perforce make them over to the care of strangers ? Is it too much to say of women that they "need strong arms that can cradie a healthy ckild and hold it cruwing fin the air backs that will not break under the burden of household cares, a frame that is not exhausted and weakened by the round of däily dutiss?"

When I luok round among the women whose family history is known to me, and with whose maternal experiences professional acquaintanceship has made ne familiar, I find that all those who have safely and easily passed through the crises of motherhood without impairment of general health are muscularly well developed; most of them led as children a free outdoor country life; and a large proportion were their brothers' playmates and comrades in girlhood in all their active sports. This entirely coincides with medical experience generally, for the almont incredible expenditure of muscular force which women have to sustain in a single day during the exercise of their most laborivus maternal function, cannot fail to overdraw, if it does not exhaust, the strength and powers of endurance of those women who, as one o! our well-known obstetricians has aptly put it, "have never done a hard day's work in their lives before."

I am content to rest my claim for the physical education of girls on their universally recognized right to become in fulness of time wives and mothers; for if it be once admitted that it is due to gir's to spare no pains to make them strong for the perfornance of their special womanly duties, we need ask for no more. Girls of the physical calibre which will make them the strong mothers of a strong race are sure tọ have such a
foundation of health and serength, such firmaess of minscle, stich' wellstrung nerves such well-developed brains. (for it must not be forgotten that the size and quality of the brain is largely influenced by the mukeilar dovelopment of the boidy, that they witl be able to accomplish without strmin a very large atnount of intellectual work; able; in fact, to do any kind of intellectual work which they deliberately blect to do. And we shall be no more assaildd witlrpitifol tales of girls ctushed under the weight of competitive examinations, of overactive brains in feeble bodies; giving way for yeats or for life: 'We shall hear no moref in short, of those disgraceful breakcowns of health on the

Ihrestrold of adule lle which bring such disededit on the touventent fir the highter efucation of women: ati thougli they'are by no treans tonfined to the femme sex. For a girl to breth down tender pretessure of imellettual work is, 1 toniten if a distrace to thbye who hate been rintrited with her early tainingi, no less than a diseredit to hereelf, and at dishomour to the woman's chust : and it is ligh time to raise bur voices in strong protest against sukl waste vif precions yoting human hfe, such violation of physio: logical laws, and such criminal leners ance of the condtions and requirements of healthy: development in women.

Frances E. Hoggan, M:D.

## UPPER CANADA COLLEGE.

BY REGIODUNENSIS.

UTPPER Canada College stands pre-eminently alorre among the High Schools of Ontario. The grounds upon which it becomes entitled to this distinction among its compeers, is the amazing extent to which it receives aid from its Legislative Endowment -some $\$ 23,000$ per annum. A questionable spirit of localism has for years past prevented the Toronto press from exposing this scandalous and totally unjustifiable waste of public money. Self-interest strangled their patriotism.

The fact of the matter is that the endowment of Upper Canada College was, at the outset, a grave mistake, and the wisdom of the Legislature in continuing it to the present time may well be disputed. It was bad enough that the injustice should have been at
first perpetrated ; it is infinitely worse that it should be longer continued. That previous legis'atons should have committed a serious wrong is no reason why our piesent ones should culparsly refuse or neglect to ripht it. The endownent was more than a mistake. It was accomplished only by the spoliation of the outlying Graminar Schonlt-an act which: in itself was sufficient to gain-lor the whole $\operatorname{tran}$ anction the unqualified disapproval of every true linver of education: Even the misurable excuse that there wire no schobls to do the work of secondary teludation for the Priv. ince dould hor be :urged in defence of their actiont: joth S. Carthright, Rubert Buldwin, Christopiher Hagermanj;'Siri' J. 'B. Robinsón, Sir'fas: ' Macaulayi Chancellor $\forall$ ankodghnet;

Sandfield Macdonald, Sir John A. Macdon ${ }^{\prime}$ ', ARon. Qliver Mowat, Sir Richard Cartwight, G. A. Kirkpatrick, M.P., and a host of others that might be mentionnd, were all educated at the District Grammar Schools, men whose superiors have not yet appeared in Capada, whether at the Bar, in the Legislature, or on the Brach. Notwithstanding that the eight old dis rict Grammar Schools deserved so well of the country, Sir John Colburne illegally transierr d 60,000 of the 250,000 acres set apart by the Imperial Goyernment for Graminar School pirposes, to Upper Canada College. Then followed the plundering of the Cornwall, the Kingston, and the Niagara Schoolsof tugir royal annual grants of $£ 750$ sterling. Nor was this all. The casual and territorial fund of the Province was preyed upon to the extent of $\$ 4.444$ per annum ; the property of the Toronto District Grammar School (now the Collegiate Institute) was unlawfully appropriated and sold ; and worst of all, nearly three-fourths of the University Endowment was absorbed-not to speak of $\$ 26,000$ of Common School money. Altogether nearly $\$ x, 500,000$ have been expended upon it since its establishment in 1830 . Its ill.gotten endowment, according to Chef-Justice Moss, now furnishes it with an income of $\$ 23,000$ per annum; $\$ 10,000$ more are derived from fees; so that it has a revenue considerably over $\$ 30,000$. The writer of this article has no intention of tracing the dark history of this boarding schoal through its half-century: of parasitical existence. Other and abler pens have already done that; hut taking matters: as they now stand, what reasons can be urged.fas the continued support of Upper Canada College? Why, allow it to be longer:benefited by: property obtained by, fraud, and held: by mere sufferance? 'To. de swhat?: Purely High School work © For years
past it has been a mere fecder of University College. It claims to be something mote, but no one apparently can point out on what the claim is founded, save the vigorous but unsupported assertions of its friends. It is a notorious fact that this large sum of $\$ 30,000$ is spent every year in attempts to enable it to do work for the Provincial University which can be done quite as well, and much more economically, in the High Schools. Over twenty thousand dollars of the public funds of the Province are frittered away upon an institution that has been allowed to survive its time, and which, if judged by the tests now applied to our High Schools, would exhibit no very astonishing record to the country. Judging by the number and the rank of the students whom she annually sends up for University Matriculation, Upper Canada College has nothing to boast of. Here is her record for the past three years as compared with that of the High Schools and Collegiate Insti-tutes:-

FIRST AND SECOND CLASS HONORS.



## Gunim Matsimbtion．

| Tolal awardanios |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| iRen． | 7 | $\varepsilon$ | $\bigcirc$ | 1 |
| ジャッ | 9 | 7 | 1 | 7 |
| $1{ }^{\text {E }} 78$ | 8 | － | 2 | 1 |
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| 1879．．． | － 1 | 1 | 2 | 0 |
| 18 grs． | 3 | 7 | 0 | C |

The above bguses shew at a glance the comparative amount of work done by the High Schools and Cpper Canada colls g．during the time specinied，with this exception，that the fermer have been making rapil strides forward， the latter has yearaftery ear been com－ pelled to retise further and further inte the background．The Toronto Collegiate Institute－not to menton others it the Enaversity matricula－ tion of June l．ast trok a position which Upper Camada College has barely apamed in even its palmist diys； atd yet the former roceived in 1.879 only $\$ 1.99550$ from（inermment；the l．uter，its $\$ 23.000$ ．The fact of the matter is，that from being the prin－ cipal feeder of University College twenty－five years ago，it has in the main degenerated into a nursery for the propagation of youthful prig isim and the exenic：growths which spring up）in the effort to give a＂high－toned＂ education．That the＂college＂has contmued to score a few honours in the sub－departments of Engrish His－ tory and Modern Languages is about all that the insttution can claim for itself；of first class henours in the weightier departments of Mathematics and Classics thas litule to shew．Not－ whthstanding this indifferent record， it continues to be petted and adver－ tused by the governurs of Univerşity College，from the President down－ wards．This suggesti a point in the discussion of the question that has generally been shirked．The sole con－
trol of Upper Canada College is now vested in a committee nf the sienate of Toronto University．That botly is thercfore resjuansible for the contibued existence of the so－called Collega，for the wastc of public；money in main－ taining it，and for the persistent and successful effurts to advertise it ot thy expense of the High Schools．With－ out doubt，if the Semate had recom－ mended the disestablishoment of $\mathrm{U}_{\mathrm{p}}$－ per Canada College，the legistamre would lang ago have withdrawn its fat endowment．Why the Serate has nut dones so is a unestion which the Chancellor，or has lise，might well be asked to answer．Apathy and ueolect are no excuse for the non－fulfi－ ment of duty．If those who control this bearding．school college see no waste of pull），money in its endow－ ment，they must be prepared to defend its maintenance．The ir attempts to bolster a decerving invi ution are not creditable to their professed regard for secondary education．A paltry sum of tive hundret dollirs is considered a sufficiently large Government grant to call forth the best efforts of the mastcisin many of the ontlying schools， but the untrician staff of l＂pper Can－ ada College must be propiti．ted with nothing less than $\$ 23,000$ of Legisla ．． tive pap．

That the benefits of the school are largely cenfined to Toronto and vicin－ ity is clearly seen by an examination of the Return furnished by order of the Legislative Assembly in Febra－ ary， 1878 ．The f，llowing is a sum－ mary of the attendance taken from． that return ：

Kesidence．



It is to be presumed, (1) that the "Elolicge" was never intended to colucste the chitdren of ritizens of the (Thtell States: (z) that Fordnto Cotlegiate Insutute colld, whith shdd tions
 all High Schoon puptls residunt in the rit, and virinity! ( 3 ) and that the other provinces of the Daminiom ean colurate their owf ehiddren : and tion we reath the astounting fite that Lipere Camadn College is endnted to the extent of $\$ 3.000$ per athium to educate a daily average ate nolance of nhmat 90 pupils fom vatious parts of Comatio. This is about $\$ 250$ per popinl per annum; or tiking the that attendanee at 300 , and the whole reverme at $\$ 30.000$ (and it is consid. erably in reve), the cest of edurathy carth pupil is foumd to be at leats $\$ 100$ per annum. The satre work is being done in many of the High Scimols at a cost of about $\$$ so. Trinity College School, Port Fipe, Albert Coilege School, Belleville, and fiell. milth College Schose, I.on ton are all doing similar and equally grod work, and ate self-supporting. The pupils in these schools, as well as those in Upper Canada College are, it is wellknown, the sons of wealthy men, the very men for whom the Proviace, is not called upon to provide any such
seats of learning. If provided at all, they should be for the sons of the poor. I.et it be remembered, alse, that the amount diveributed annually among the Public Schools by the Legislature, is only abont $\$ 1$ per pupul. and it will soon breome apparent how unjust and indefensible. this state of affairs is $\$ 250$ upon a rich man's son attending Upper Canaila Coll-ge, and \$: up.n a poor man's, attending say a city Fthbice Sthom.

Of coutse, the people of Toronto are strongly in favour of its continuance. N.s wonder! They get the beneft, and the Province foots the bith. Howtwer, the temper of the House of Assembly last winter, when the suljert was up for discussion, shewed pretty clently that the days of this high-caste boarding school are numbered. Finamial syndicates are all the tage how. Why should not the shop keepers of Tiorontw, as the I.ondon Adzerfiser suggests, buy out the whole machine from Government, and run it as a private enterprise? Other schools of a similar character in Ontario are selt-supporting; why shouhd not this une become so? The revenue from endowment could then be expended, as orginally intended, upon the High Schools of the Province.

In the last examination in lonilot (ting.) University, ladice take tire cout of the first formeren phaces. Sixteen out of ciglity-five in honors, and twenty-four in the first class are also ladies.
Pumotorists in England are the strongest advocates of the spelling reform, but have aid from all ranks. The, London Spelling Reform Asvociation now publishes a monthly journal which seems ably edited. It is-published at 20 Paternoster- Row, London, ai twopence per number.

Tirn results of the Oxford lotal examination khews that 217 passed the senior ex. ainentition. Among the juniois' 195 girls ptaseicl.

Wiflt is 'in $A^{\prime}$ Worn. - Papils do' not sech to dementier the words we pronoutice correctly, bur if we teath' $x$ donts prondicia atioh they setre to ellitg to that with wodnderful tenticity:.. The teacher, 'Tefting a' Word go worng'once,'máy'ife fir maty thinds a wrong prutunciafrdn that may'last for life. Educational bredkly.

# ARTS DEPARTMFNT. 

archibald macmurchy, m.a.; mathematical editor, c. E. m.

Our correspondents will please bear in mind, that the arranging of the matter for the printer is greatly faciltated when they kindly wrute out their contributions, intended for insertion, on ene side of the paper ONI.Y. or so that each dintinct answer or subject may admit of an tasy beparation from other matier willoout the necessit, of having it re-written.

Mr J B. McColl, Teacher, sent correit sohitions of problems $145,146,147,148,149,150,151,252,153$, 154, and is5. last month. too late to be noticed in the November number.

## SOLUTIONS

By the proposer, J. H. Balderson, B.A., Math. Master, High School, Mount Forest,
165. Prove that the equations

$$
\begin{aligned}
& \text { (1) } x+y+z=a+b+c ; \\
& \text { (2) } \frac{x}{4}+\frac{y^{\prime}}{b}+\frac{z}{6}=1 ; \\
& \text { (3) } \frac{x}{a^{3}}+\frac{y^{\prime}}{b^{3}}+\frac{z}{c^{3}}=0 ;
\end{aligned}
$$

are equivalent to only two independent equa. tions if $b c+a+a b=0$.
(1)

$$
\frac{x}{a+b+c}+\frac{y}{a+b+i}+\frac{z}{a+b+c}=\mathbf{r} ;
$$

(2) $\frac{x}{a}+\frac{y}{b}+\frac{z}{c}=1$;
(2) $-(1)$ then
$\frac{x(b+c)}{a(a+b+c)}+\frac{y(z+c)}{b(a+b+c)}+\frac{z(a+b)}{c(a+b+c)}=0$,
or $\frac{x(b+c)}{a}+\frac{v(a+c)}{b}+\frac{z(a+b)}{c}=0$,
or $\frac{\frac{x}{1}}{\frac{a}{b+c}}+\frac{\frac{y}{1}}{\frac{b}{a+c}}+\frac{\frac{z}{1}}{\frac{i}{a+b}}=0$;
by the restriction $a=\frac{-b c}{b+c}$,
or $\frac{\mathbf{1}}{b+c}=-\frac{a^{2}}{a b c}$
$\therefore \frac{1}{c+a}=-\frac{b^{2}}{a b c}$ by synmetry,
$\therefore \frac{1}{a+b}=-\frac{c^{2}}{a b c}$;
we have $\frac{\frac{x}{a^{3}}}{-a b c}+\frac{\frac{y}{b^{3}}}{-a b c}+\frac{\frac{z}{c^{3}}}{-a b c}=0$,
or $\frac{x}{a^{s}}+\frac{y^{3}}{b^{3}}+\frac{z}{r^{3}}=0$;
$\therefore$ the three equations a: equivalent to two independent equations.
167. The number of combinations of $2 n$ things taken $n$ at a time of which $n$ and no more are alike is $2^{n}$, and the number of combinations of $3^{n}$ things of which $n$ and no more are alike, is $2^{2 n-1}+\frac{\left\lfloor\frac{2 n}{2}\right.}{2\left(\sqrt{\underline{n})^{2}}\right.}$.
$n$ things can be taken from the $n$ like things in one way ; ( $n-1$ ) things can be taken from the $n$ like things and $I$ from the $n$ unlike things in $n 2$ ways; 2 things can be taken from the $n$ unlike things and $(n-2)$ from the like in $\frac{n(n-1)}{2}$ ways, \&c., \&c.

It will be found that the whole number of

Take 12 things from the like, this can be done in I way. Take $n-1$ things from the like and I from the unlike, done in $2 n$ ways, Take $n-2$ things from the like and 2 from the unlike, done in $\frac{2 n(2 n-1)}{\frac{2}{2}}$ ways.
Take $n-3$ things from the like; and 3 from the unlike, done in $\frac{2 n(2 n-1)(2 n-2)}{6}$ ways.

This will continue for $n$ terms, and we have the sum equal to

$$
\begin{gathered}
1+2 n+\cdots \frac{2 n(2 n+1)}{\lfloor 2}+\ldots+\frac{2 n}{\left(\lfloor n)^{2}\right.}, \text { but } \\
(1+1)^{2 n}=1+2 n+ \\
+\frac{2 n(2 n-1)}{\lfloor 2}+\ldots \\
\\
+\frac{2 n}{\left(\lfloor n)^{2}\right.}+\ldots+2 n+1 ;
\end{gathered}
$$

if we add $\frac{2 n}{\left([\underline{n})^{2}\right.}$ to each side of this latter we have double the number of combinations; $\therefore$ twice the number

$$
\begin{aligned}
& \qquad=(1+1)^{2 n}+\frac{\frac{12 n}{(1-n-)^{2}}}{}=2^{2 n}+\frac{\frac{1}{2 n}}{(\underline{n})^{2}}, \\
& \text { or the number }=2^{2 n-1}+\frac{\left\lfloor^{2 n}\right.}{2\left([n)^{2}\right.} .
\end{aligned}
$$

## PROBLEMS.

176. Apply the principles of algebraic expansion and factoring to the solution of the following arithmetical problems:-

Simplify
(a) $\frac{\frac{1}{4}-\frac{1}{2}+\frac{1}{2}}{\frac{1}{2}-\frac{1}{6}}$;
(b) $\frac{\left(\frac{3}{3}+\frac{1}{2}\right)^{2}-\frac{3}{8}-\frac{1}{3}+\frac{1}{3}}{\frac{y}{6}+\frac{1}{3}-\frac{1}{2}}$;
(c) $\frac{2499}{49}$;
(d) $\frac{6364}{15 \times 5+11}$;

(g) $\frac{.5 \times .25-25 \times .0625}{.5-(5)^{2}}$;
(h) $\frac{2 \times 4 \times 8-.5 \times .25}{5=1.5}$
177. Factor
(a) $(1+x)^{2}+\left(1+x^{2}\right)^{2}+2\left(1+x^{4}\right)+2 x\left(1+x^{2}\right.$.)
(b) $(x+y+z)^{2}+(x-y-z)^{2}+2 x^{2}-2(y+z)^{2}$.
(c) $\left(1+2 x+x^{2}\right)^{2}+\left(1-2 x+x^{2}\right)^{2}+2\left(1-x^{2}\right)^{2}$.
(d) $\left(x \times y^{\prime}\right)^{4}-5\left(x^{2}+y^{2}\right)-10 . x y-24$.
(c) $p+q+r(p+q+1)+s(1-p-q)+r^{2}-s^{2}$.
(f) $x^{2}+y^{2}+x+y+2 x y-x z-y z$.
(g) $p+q+r(p+q+r+s)-s(p+q+r+s)+r+s$.
178. Shew that

$$
(x+a)^{2}+(x-a)^{3}=2\left(x^{3}+3 a^{2} x\right) ;
$$

also that

$$
(x+a)^{3}-(x-a)^{3}=2\left(3 a x^{3}+a^{3}\right)
$$

and from these formula simplify
(a) $(a+b+c)^{3}+(a+b-1)^{3} ;$
(b) $(a+b+c)^{3}-(a-b-c)^{x}$;
(c) $(x+y+1)^{2}-(x+y-1)^{3}-2\left\{3(x+y)^{2}+1\right\}$. 179. Simplify
(a) $(x+a+b)^{3}+(x+a-b)^{3}$

$$
+6(x+a)(x+a)^{2}-6 b^{2}(x+a) ;
$$

(b) $8(x+a+1)^{3}-(2 x+2 a)^{2}$

$$
-8 b^{2}-24 b(x+a)(x+a+b) .
$$

180. If a cubic foot of water weighs $\mathbf{x , 0 0 0}$ ounces, and the specific gravity of silver be 10. 5 , find how many ounces of silver wrould be required to make an inkstand, in the form of the frustrum of a regular hexagon, 4 inches high, each of whose sides at the base is 2 inches long and at the top 1 inch long, the hollow being in the form of a right cylinder, extending to within one inch of the bottom, and arranged about the central axis, so as to leave a wall $1 / 4$ of an inch thick at the middle of each side at the top.
181. $A$ owes $\$ 4,000$, due in three years, bearing interest at 6 per cent. per annum. He wishes to malke equal half-yeanly deposits in the bank, so that at the end of the three years, these deposits, with accrued interest, may be just sufficient to cancel the delit, the bank allowing interest at 5 per cent. per annum, payable half yearly, and the first deposit to be made at the end of the first half year. Just after making his payment at the end of the second year he is compelled to draw out of the bank $\$ 1,000$; find how much each of his last two payments must be increased on this account; also find the total amount of the last deposit.
182. A brass scale of a barometer has been correctly graduated at $62^{\circ "}$ Fahr.; find the true reading of the barometer when it shews 30 inches at $87^{\circ}$ Fahr., corrections being made for the expansions of the scale and the mercury, the co-efficient of expansion of brass being .oocol for every degree Fahr., and one vol. of mercury at freezing point $\left(+32^{\circ}\right)$ occupying'r. 0054 vols. at $87^{\circ}$.
W. S. Ellis, B.A.,

Math. Master, C. I., Cobourg.

184. Suta the series

$$
\begin{aligned}
& \frac{1(x+2)}{2 \cdot 3-(x+1)}+\frac{2(x+3)}{3 \cdot 4-(x+2)}+\frac{3(x+4)}{4 \cdot 5-(x+3)} \\
& + \text { \&c., ad inf. }
\end{aligned}
$$

185. Find the sum of $n$ terms of the series

$$
\begin{aligned}
& (x+2 y+3 z)(2 x+3 y+4 x) \\
& \quad+\frac{1}{(2 x+3 y+4 z)(3 x+4 y+5 z)}+\ldots
\end{aligned}
$$

186. Sum

$$
1-\frac{3}{4}+\frac{3 \cdot 5}{4.8}-\frac{3 \cdot 5 \cdot 7}{4.8 \cdot 12}+\& \mathrm{cc} \text { to intinity. }
$$

187. If the sides of a tiangle be cut proportionally and lines be drawn from the points of ection to the opposite angles : the metersection of these lines will be in the sume line, viz., that drawn foom the vertex to the middle of the base.
188. Given the base and perpendicular: to construct the triangle, when the rectangle contained by the vides is equal to twice the rectangle contained by the segment of the base made by the line bisecting the vertical angle.
189. Given the perimeter of a right-angled triangle, whose sides are in geometrical progression: to construct the triangle.
190. Given the vertical angle of a triangle : find the locus of the point when the base is cut in a given tritio, if the base pass through a fixed point.

19t. Find the locus of the vertex of a triangle, given base and difference of base angles.
192. Prove that if a ball of elasticity $c$ be projected fiom one extiemity of the diameter of a horizontal circle, in a direction making an angle $A$ with the dianeter woch that the ball after one reflection at the curve passes through the other extremity, then

$$
\sin \theta=\left(\frac{e}{1+e}\right)^{\frac{1}{2}} .
$$

193. From what height must a perfectly ela-fic ball be let fall into a hemispherical bowl, in orler that it may reiound horizontally at the first impact, and strike the lowest point of the bowl at the second.
194. A small pencil of rays diverge from as point in the axis of a double convex lens, the thickness of which equals one of its radii. Required the geometucal focus of the refracted rays.

J. L. Cox, B.A.,<br>Math. Master, C. I., Collingzoood.

Ar the recent Cambidge examinations, the candidates, nearly all of whom were girls, numbered 8at, and only 209 failed to pass in one or other group. The Divinity prize was awaded to a woman.

DURing a, rẹcent examination in one of our Pu!lic Schools, the teacher asked, "What is a monarchy?" and was immediately answered by an eight-year old boy, "A country governed by a king." "Who would rule if the king should die?" "The queen." "And if the queen should die?" "The jack!"

Teachers who wish to see an array of argumenis against the spelling reform should send twenty-five cents to the Authors' Pub-li-hing Company, 27 Bond Street, New York, for a copy of "The $\mathrm{S}_{\mathrm{l}}$ pelling Reform Question Discussed," by E. H. Watson.

A Massachusetrs boy, about as bigh' as the counter, recently went into a book-store and asked for " a book for ten cents with a murder in it.": How many of pur Ontario teachers keep a sharp look-ont for what, their boys read either at home or during. recesses at school?

# MODERN LANGUAGES. 

[Embracing Practical School Work in Euglish, Frenchand Gcrman subjects.]

DICTATION EXERCISES.
ON SYNONYMS ANH ANTONYMS.
[The plan adopted in the following Exercises is to select a word reptesenting, a faniliar idea, with its opposite ; to place a few syn nyms under each; and to follow these by short semtences, shewing the proper use of each word. These sentences are to be used as Dictation Exercises ]

Synonyms are words of similar meaning; as joy, sladness; sor:czo, grief.

Antonyms are words of opposite meaning ; joy, sorrow; sladne'ss, srief.
begin.
commence. initiate. inaugurate.
end.
conclude. perfect. consummate.

Exercise.-A river begions at its source. The year legens on the first of January, and ends on the last of December. An army commences operations in spring, and concludes them in autumn. We initiate a student in a certain study, but he must perfect himself. A great movement, such as the abolition of slavery, is inaugurated and constmmated. A dignitary is inaugurated when he is inducted into office. Procedings commence and conclude. A struggle begins and ends.


Exercise.-A later train; a latër addi. tion. An carticr delivery. The latter of two trains, or editions. His former situation. The difference" betweén education an'd "instruction is, that frie former trains the mind ; the latler fills it with information ; - that draws out añd' stimulates ils powers; this ${ }^{i}$ stores and often clogs it.

| accomplish. | fail. |
| :---: | :--- |
| execute, | defeat, <br> achieve. <br> perform. <br> promote. |

Exercise.-We either accomplish an ob. ject, cr we faib in it. A general has to execute his own projects, as well as to defeat those of the enemy. Great designs are often: frustrated; seldom achiused. It is often casier to mar other folk's work than to perform our own. A scheme is promoted by its friends, buplled by its enemies. A schemer is baffed, as well as his desigm. It is easier to promisethan to perform.

| prosecute. | abandon. |
| :--- | :--- |
| remain. | leave. <br> support. |
| protect. <br> vindicate. | forsake. <br> detain. |
| renounce. |  |
| retain. | relinquish. |

Exfrctse.-We abandon studies which it is not profitaible to prosicute. A man leates the party in which he does not wish to remain. Friends ...e forsakien and desertad by those who ought to support and protect them. We should renot" opinions which we cannot vindicate. We relinulu'sh an office when we cannot retain it. A son often deserts the cauie which his father supported. We relinquish purposes.' We abandon principles. We leaví the country.


Exprctse:-A constartfriend, is one who never fails uś " A tothstaht' demand;' is ' ohe that never declines. An irregular démand.
rises and falls. A cintinual struggle is one that has nover been interrupted. A continu. ous line of railway, is one which is broken at no point. Perpetual banishment, is that to which there is no end. That which has an end is limited. A uniform standard ; a variable stanlard. Uniform courtesy; variable winds.

| beautiful. | agly. |
| :--- | :--- |
| lovely. | plain-looking. <br> elegant. |
| graceful. | awormed. |
| picturesque. | award. |
| stbblime. | tame. |
| grand. | ridiculous. |
| paltry. |  |

Exercise.-A beautiful face. An 1 gly man. A iovely child. A plain-looking girl.

An ustytrick. An elegant form. A dcformed lumb. A graceful moventent. An aivkur, ${ }^{\text {l }}$ novement. A grace/ul action. A graceful compliment. An awkivard mistake. Picturesifue scenery in the reverse of tame. A stablime thought. A ridiculous fancy. A ridiculous blunder. A grand scheme. A paltry contrivance.

| praise. | blame. <br> commend. |
| :--- | :--- |
| approve. | censure. <br> reprove. |
| exonerate. | rehuke. <br> encourage. |
| chide. |  |

Exercise. - A master blames or he praises his servant. A critic censures or commends a book or a course of action. Keproof and rebuke are stronger than simple blame; they are blame expressed in words addressed to the oljject of it. To exoncrate, is to relieve from a burden of blame. We exonerate one from a charge. A parent lovingly chides his child when he does wrong, and encourages him when he is doing right.

| timid. | bold. |
| :--- | :--- |
| fearful. | fearless. <br> spiritless. |
| cowardly. | caurageous. <br> brave. <br> craven. |
|  | chivairous. |

Exercise.-A bold man. A bold step. 'A bold adventure. A timit girl. Timid pol-
icy. A fecterss foc. A foriful calamity, is one that excites fear. A conarageous spirit. Spiritless conduct. A brave soldier. A cotuardly act. A chizalrous enterprise. A chiral'ous spirit. A craven spirit. Craven fears.

| coarse. <br> rough. <br> rude. | refined. <br> gentle. <br> polished. |
| :---: | :---: |

Exerctse.- Coarse language is the sign of a vulgar mind. Refined taste accompanies delicacy of feeling. Manners are rough or gentle. A rough sailor; a gentle nurse. A rough storm; a gentle breeze. Rude language is a sign of ignorance; polished language, of education. A rude shock. R'ude behaviour ; polished manners. A polished style of writing.

| accurate. | inaccurate. |
| :--- | :---: |
| careful. | careless. |
| exact. | incorrect. |
| faithful. | faulyy. |
| precise. | defective. |

Exercise.-An accurate history is the work of a careful historian. A careless observer makes inaccurate statements. There may be an exact copy of an incorrect drawing. A narrative may be precise as far as it goes, and yet may be defative in sume particulars. A failhful portrait may yet be a faulty picture. A faithful friend. A careful student. A difectrve education.
reject.
refuse.
repudiate. disclain. deny.

## admit.

grant. acknowledge. avow. confess.

Exercise, -We often admil facts while we reject the inferences drawn from them. A man may confess that he has been careless, but deny that he has been fraudulent. He may acknowledge the charge of neglect, but repudiate the charge of fraud. A prisoner has often azpowed his guilt after disclaiming all knowledge of the crime. We, repydinte friends whom we do not wish to acknozuledse. We confess our faylts. We refuse requests which we cannot grant. Permission is .tefused, or it is grantcd.
benefit.
advimeage. protit. favour. service.
injuty. disadvantage. lose. hindrance. dissarvice.

ENERCISE.-Bencfits and injuries are properly acts. Aharatage and disatratitige are properly states of supetiority and inferionty respectively. We confer benefits. We do ittjuries. We enjoy advantages. We lie under disadzantages. We have or gain profit. We suffer loss. Fianours come from superiors; services from inferiors or from equals. Hintrance prevents us from actting ; disservice acts so as to do us harm.

|  | -- |
| :---: | :---: |
| deny. | affirm. |
| dispute. | assert. |
| contradict. | declare. |
| oppuse. | maintain. |

Exfrctse. - We affirm or deny statements. We assert or dispute rights and claims. We declare intentions and convictions. We contradied what we do not believe. We maintain a cause, and we appase an enemy. Men are prone both to affirm and to deny without sufficient knowledge. He asserted his rights with calmness, and maintaine them with courage. His claim was disputed by his cousin, who opposed him with all his might. Witnesses, in giving evidence, often contratict one another, sometimes even themselves.

| common. | rare. |
| :--- | :--- |
| ordinary. | remarkable. <br> vulgar. <br> mean. |
| polite. |  |
| noble. |  |

Exercise.-Common things are cheap; rare things are dear. A man of comemon education. 'A man of rare abilitg.' An ordinary occurrence. À remar-kable geniu's. 'A remarkable result. The manners of an uneducated inan are vulyar; those of one who has mixed in good suciety are polite". A" mean action." A mimean spírit. A mean advantage. A mean đ̂rick." 'A meañ féllow. A nóblé action. Noble conduct. A noble institution.
increase.
enlarge. magnify. aggra vate angment.

## abate.

lessen. miminish. mitigate. reduce.

Exerctse.-A storm abates or inctrases. Our interest in a subject ahatis or intreases. Hope lessens. Projects are enlarget. Strength is often diminished in reality when it is magnified by report. Whan an offence is aggramited by previous misconduct, punishment is not likely to be mutigated. A. man's income may be reduced or ansmented. Friendship magnifies a man's merits, and lessens his faults.
authentic.
genuine.
true.
real.

## fictitious.

spurious. false. counterfeit.

Exprctse. - An authentic history, is one whose statements may be accepted as facts. A gentsinte work, is one which is really the production of the author whose name it bears. A work which is not genuine as to its authorship, is spurious; a work which is not authentic as to its facts, is uareliable or fictilious. A true or a false statement. A true friend. A false impression. Keal diamonds. Counterfeit gems.

| neglect. | attention. <br> omission. |
| :--- | :--- |
| observance. <br> disregard. <br> contempt. | regard. <br> esteem. |

Exercise. - Neglect of duty is a scrious fault, deserving punishment; neglect of parents or friends dependent on us is culpable in the highest degree. An omission nay be the result of accident, and is a less serious offence. Attention implies more effort of will than simple observance. Culpable neglect. A slight omission. Close attention to duty. Regular observance of the laws. We have regard for friends; we disregard advice. We esteem honour, and feel contempt for meanness. Regard for the truth. Sabbath observance. Contemipt of court.-From Nelson's Royal Reader.

## ENGIISH PARSING.

The word "but" is derived from the Anglo-Saxon butan, contracted from betuan, i.e. be=by and cuan $=-$ outside, hence it meantoriginally "by the putside,". "beygnd," "except." (Skeat, Etym. Dict.) 't Is usedin A. . St both as a preposition and as a conjunction. It is ofen a iroublesome woid to parse, vayying, apparently, from a conjunction to a preposillon netordith to' the words supplied. In the tollowitis it sectrms ib be a preposition:
., i. A. cannot be persuaded but that he 'meant mischicf. Governing a noup-sentence.
2. Neier dreans but ill must come to all. Supply that after but. Governse a noun-sen. rence.
3. Who knotos but he'll came yed? Sup. ply that. Governs noun-seatonce.
4. Hi is all hut perfect. Supply a befare, and man after, perfect. Then but governs a houn ; or expand thers: "that he is perIect," a noun-sentence.
5. He is anything but wisc. Expand as in 4.
6. This is anything but the truth.
7. It never rains but [that] it pours. Or but $=$ if not.
8. But that he has a family be coould have left Eingland long ago.
9. But for you, ive should have failed. Perhaps governing the adverbial phrase " for you."
10. There is no one, but knotus. Supply that he after butt. It seems an crror to parse Whit lin thistentencfas a " negative relative," as equivalent to who-not. This explanation inas probalaly suggested by the . which translates it.

In the following buf sceqms to be a conjunction:
D. No soanter did ho hear hery hut he buest - intro a passion. . Wo now usaally: say. 6 haft for bot. We:cannot supply chatinfter butir $\$ 0$ ans to make the following a noun $\frac{\text { sentence. Aut }}{}$ seems a dopendent conjunction.,
2. "He zyent but $\Gamma$ staill at hothe. Adversalive conjunction.

3 Ten to one but be comes. But seems put for that.
4. Bicshrau my sonl, bat $I$ do lotre. Adversative conjunction. Compare "you may do this, but I shall do that." It may, however, be equivalent to "neverthetess."

But is an adverb in,

1. I have but one:
2. I can but grieve.
N. B. - Most of the above examples are from Abbott, though not always explained as he explains them.
(To be continued.)

Is Florida the school age is from 4 to 21 -the length of the schoot year is 105 days; this is equal to about 5 years' continuous school attendance, reckoning 30 days to the month. Maine, has the same school age, but the school year is 118 days. The school age in Wisconsin allows for 8 years, 4 months and 24 days schooling. New York, New Jersey, Hlinois and Delaware provide from 7 years' to 7 years and in' months' schooling. These are the highest. Massachusetts ranks low and North Carolina lowest, providing for only 1 year and 3 months
and 8 days' schooling. Pennsylvania, Maine, Vermont, Connecticut, Rhode Island, New Hampshire, and Massachusetts can shew a daily average attendance of 50 per cent,.and upwards of those enrolled as scholars,

It will be interesting to compare these statistics with those fo: Ontario. With us the school age is from 5 to 21, the school age is about 200 days. This allows, about 9 years' schouling, counting 39 days to the month. Our daily average altendance, however, does not rise above 46 per cent, of the number of schotars enxolled.



## PUBELC SQHOOL DEPARTMENT.

里, ........


## MODEL S SCHOOLS'

"Erivertron mas not fallen to the rear in 'the'genernl aduance of everything. that be--tokeits $n$.high elvilization, in noitespect is "this more exheurvisle. than in the change in opinion with regerart to the qualifications of texchers. The lime is happily now apast, when, to secure a teacher's position, failure in every otber amployment was mpro a recommendation than a hindrance. Once, the sominie's desk dvariregarded as a Gutting refuge for the ignorant in mind, and the debilitated in borly. Now, all this has changed, and for the betuer. Public men regard the proper training of those who are to be the instructors of the succeeding generation as a matter of paramount importance. We can adduce no stronger evidence of this than the solicitude felt by many Canadian teackers on the subject. And this is perhaps one of the most tangible proofs that advancement in educational matters is with us no mere " Will.o-thewisp." When the Normal School was opened in Toronto, it was considered necessaty to have a Model School affliated with it, in which the students could learn the art of teashing, under competent instructors. This school, notwithstanding some defects, did good work in the past, and is doing better work in the present, in preparing young.peo. ple as teachers.

We would be glad indeed if we could make the same remark of the pirent institution. But truth compels us to axdmit that while the work of the Normal School has been properly limited to that of a purely professional character, thete bas been no improvementin the practical traltning of those whoattend it. The cbmplaints of 'its' students'about waste of time, while attending the institution; have
been both numerous and loud-apoken, so loud-spakep, indecd, that the Ninister of Education is nostranger to them; puthltherto he haps remaiped deaf to all the representations of mismanagement that 'have' been made to him by students and others. Does It rever ocetir to that dentitemanthat tho time and triontey of students, ands tle' vitalimerests of the whole community, are seimusty at stake in the mantinement of stuch an institution? If Mrs Csooks mill not liaters, then teachers will have to resort to the l.egr?lature as, the seat of appeal.

Another provingisl Model School has been started at Ottawa, in connection wath the Normal, Schoul there, and placed, pnder the management of Mr. Parlow, who has made an honourable reputation for himself as an educator in the eastern pirt of the Province. We hope that chis institution will extablinh even a better reputation lor itself than the Toronto Schoot has done. These provincial institutions now supplement the work of training begun in the County Model Schouls. It is upon the latter that the hopes of the country for well-trained teachers must chicfly depend. So long, however, as the training given to pupil-teachers is limited to weeks itrstead of years, we must regard the resultor f theirwork vety modestly. This question of limited training is forciny itself upon the attention of every thoughtial educator, and already there areindications that a change will be urged. Indeed, the Toronta Public School Board has already begun to make a move that promises to be of great adyantage to the profession. It proposes to erect the City Public Schools into Model Schools, to let' the pupil-teachers belonging to them act 2s,assistantiteachets in the junior classesf, and take the place of regular teachers who may
be aboent; thentrust to the Inspector the ubual work reguiect of Itead listers of County Moulel Schorols, except the teaching of elormion ant mental arithnetic, and the keenng: af the recobil. "Theterme itt ehe
 which the teachers.in-tmining whall be allow. et to altend the Provincial Normal sobool to teceive the neenssary tramme for protessonal second-elass cerificates, proviled they piss a satisfactory examination in the preacribed profestional work for thord-chass certilicates.

Oar readers will at once see the important features of this scheme. The length of the pupil-tearher's term of apprenticeship is increased, and at ite termmatior they are given the provilege of at once applying for their professional second-class certiticate. While we heartily cortmend the enlightened action of the Toronto Public Schoul Burard in tnking this important step-a step which we fope soon to'see followed by other cities and the large towns of the Province where Mordel S'chools exist-we regret that it thid not benefit fusther by the experience already acquired in the workine of the Mrelel School system, in aeting the Head Mf ster free, for in tance, frum any teaching duty, so that he might have more time to devote to supervising the training of his students. 'The plan is radscally faulty, too, in making all the schrols Model Schools; indeed, the word in this sense is a minomer, unless every teacher employed by the Board is a model teacher. If would have been wiser for the Board to have selected one of the hargest schools, where the greatest number of the lower classes is taught, and to have promoted some of its most efficient and accomplished teach rs to that school, so that the students, so suon as they had entered on their apprenuceship, would havean opportunity of seeing and learning the best methud; of conductisg a c.asi. The knowledge thus acquired coull then be perfected by practice in the other schools. If teaching has any claim to be consilered as an art, based on scientific principles, this is the pr ,per mode of learning $i t$. If the inspector could be :lliquitous, the plan proposed by the Toronto Buard would be a good one,
for then he could have cemetant arersight of all the teaching done by the students uniter him. Pailing this, what is 10 keep them from bring in a continual rig by learning, in every chowl they go to, a diff.rent method of managing a class? Nodoubt in the lectures on eduction an altempt will be made to teach them the principles of the science. and in thowe on school management they will be inseructed how to apply these principies in practice. But if lectures were delivered until the lecturer was dumb, and the hearers were deal, they would lie a poor substlute for careful practice under a skiiled teacher who knows hy experience how to appiy in the best way the principles of his art in the dally work of the school-roon.

We estinate the enlightened action of the Forunto Buard so histhly that we would like to have seen it made under the most promising conditions for successs. Faulty as it is, however, we shall watch its results with a great deal of interest, and though all the good thit might have been secured from it is inmpossible under the clogging circumstances that a company it, we have no doube that it is the beritinng of a beneficial change in the mode of educating teachers.

## HOW TO INPI:UENCF SCHOOL LEGISLATION.

Themajority of our local Associstions seem not yer to be awake to the fait that a Superintendent whose sole business and aim it was to attend to the interests of education in the Province no. longer rule 3 in the Elucation Department, but thal a member of the local Cabjinch, as Minisiter of Education, reigns. in his stead. They should remumber when they pass resolutions and forward copies of them to him, that he can give heed in them only sn far as prudential considerations for the votes of the House, or of his own constituents' permit. Teachers should take 2 hint from-this, and forward copies of the resolutions passed at their meetings, not only to him, bat to their own local members. If the matter is one of-importance let them even.
appoint deputations to wait upon these gentlemen to personally urge their views. Since the office of Minister of Education has become a politucal one there is no more effective way of giving expression to the opinions and wishes of teachers than the plan above suggested. The Provincinl Association at its last meeting set an example in this direction by appointing a standing committec on legislation, whose duty it should be to watch what school legislation goes on in the llouse, and to suggest improvements.

We venture to assert that had teachers made vigorous efforts during the last session to bring their opinions to bear on the members of the House against the shortening of the holidays, Mr. Crook's mischicvous measure would have been defeated.

If anything is to be done in the way of repealing it, no time is to he lost. Let deputations be organized to wait upon the local members, and impress upon them the desirability, nay the necessity, for the pupils' sake, of restoring the holidays to their former length. They might aiso avail themselves of the same opportunity to put forward their views on the superannuation scheme.

## SCHOOL ROOM WORK.

Under this head we propose to insert, from time to time, fateresting and practical questions, from a:varicty of sources, on the work done in an ordinary public school. Our purpose is to supply our rediders with matter they may have at hand to supplement or vary their ordinary work. We shall be glad to receive pithy, tentative questions from any source ; and should any of our readers receive from their pupils answers to the ques. tions we supply or to others that are worthy of more thian a passing notice, we shall be glad to give them consideration.
QIjESTIONS FROM THE ENGLISH PUPIL TEACHERS' EXAMINATION PAPERS.

## ARITHMETIC.

A dealer bought nine oxen at. $\{$ II 175 s .8 d . each; one died, and he sold the remainder at a profit of foz $25.21 / 24$. each. What did he gain on the whole transaction ? -Ans,- $£ 5$.

A frane being equal in $w$ 'ue in $93 / 4$ derling, what is the value of $20115.7 / 2 d$. in francs?

Ans.-162 france.
By what decimal does the sum of $\left\{1, \frac{112}{}\right.$, 11. 1, and \& fall short of $A$ ? Ans.-. 32 .

How many times loes the sum of $22 \frac{1}{3}$ and 13: contain their difference? Ans. 41 s .

Reduce to decimal forms the following expressions (by cancellation):--

$$
\frac{2.004}{.165} \times \frac{3375}{4}, \quad \frac{.0295}{3.04} \div \frac{1.18}{.00152}
$$

Ansecrs.-10.125 and .0000125.
A house which cost $£ 3.500$ lets for $\{130$ a year ; state in decimals the rent per cent. per annum which it paiys the owner.

$$
A 12 s .-3.71428 \dot{5} .
$$

A sold a picture to $B$, who sold it to $C$ at a profit of 5 per cent., who sold it ior Et,071, gaining thereby 20 per cent. What did $B$ give ior the picture? What gain per cent. was the last price on the first?

Ans. - B gave $£ 850$; 26 per cent.
The interest on a sum of money at simple interest is $£ 7$, and the discount for the same time is $\mathcal{C} 59$ s. $41 / 2 d$. What is the sum?

Arss- $-\mathcal{S 2 5}$.
I have to-day paid $£ 2,180$ in repayment, with interest, of two loans contracted by me at one time-one of $£ 1,163$ borrowed at 4 per cent. per annum, and the other of E 994 at $41 / 2$ per cent. How long is it since the money was borrowed? Atrs.-92 day's.

How much do I realize by speculation, if, investing 50 guineas I gain $\sqrt{4957.5681}$ per cent. on that sum ? $-A n s$. -899 9s. 3.66 d.

## gramiar.

(a) Give examples of aiverbs that are derived from prepositions; ( 8 ) and of preposition used as adverbs.
Ans.-(a) Ashore, aloft, behind, upwards, thereabout; (b) "We'look before and after." Stand to, stand by.

The pronouns which and what are used adjectively and substantively; give examples of both uses,

Ans.-Mdjectively: " Which things are an allegory." "What time the pea puss on its bloom." Substantively: "The blood ahich moves through the arteries is athet nourishes the borly." "The pronouas which and what are used substantively."

Explain and illustrate the statoment that conjuticio ms fulfil the same part towards sentences that prepositions do towards words.

Ant--Prequsitions shew tha logical relation between the notions represented by the words they connect, c.g.: The Queen went from I Indon $t$, Malmoral on a railway train. Hete fron shews one relation between iernf and homdon, to another and an oppocite relation between went and Bulmoral; while on shews another between atent and train. Similarly, conjunctions shew logical relations between the ideas expressed by sentences, c.j.: The war rages and the people are happy. Here we are led to believe that the happiness of the people results from the war raging ; now, change the conjunction to but -The war rages but the people ate happy. We are told here that the people are happy not by reason of the war, but in spite of it. Again, put thanghi in place of but-The war rages, thought the people are happy. Here the relation between the ideas expressed by the two statements is again different.
"The north wind spends his rage; he now shut up
Within his iron cage, the effusive south warms the whole air."
(a) In analyzing the above how would you take the nominative absolute that occurs in it? The nominative absolute phrase, " He now shut up," iq an extension of time, equal to the adverbial sentence, "When he is now shut up," and it qualifies the verb zuarms.
(b) Give other examples of a similar constraction. Winter conting on the birds of passage disappear. The rightfal king a fugitive, the usurper easily secured the throne.

GEOGRAPHY.

## NAdaplect fromb the English questions.)

.What is the nearest railway station to your, hame?:By what limes of miliwiy'should you travel to go to Toronto, OTtawa, Ebondon,

Hamilton. Trace a journoy to one of these places as minutely as yous can.

Describe fully and simply the chief objects of itoterest to a traveller in Italy. (Venice with its canals, buildings-as St. Mark's-nad works ofart: Rome withitsmins -as the colliseum-its maintinge, sculpture and architecture; Naples with its benuuful bay; and Vesuvius in the distance ; Pompeii, the resuscitated city; Florence with its works of art: Pisa with its leaning tower: Milan with its Dunmo; the clear blue sky, the semi-tropical fruits, the dark-complexioned peasantry with their smooth speech and partiality for music, and their signlficant gesthes. Wescribe the physical features of St. Helena, Mauritius, Ceylon, lalusan and Cyprus. Iescribe the course and physical character of the Jordnn, and the peculiatitics of the Dead Sea. The Arabs in describing the Lebanon mountains say that winter rests on their head, cpring on their bosom, while summer lies sleeping at their feet. Explain this.
hucidi and mensuration and algemra.
The two triangles formed by drawing lines from any point within a patallelogram to the extremities of two opposite sides, are together half of the parallelogram. (Authorities ued. I. 3t ; I. 4I.)

The length of a rectangular field is to its breadh as 6 to 5. One-sixth of the field was planted, which leff 625 square yards for ploughing. What is the length ?

$$
A
$$

Find in yards the diamcter of a circle whose area is 11 acres 3 roods and $288^{7} 2^{\circ} 2$ poles. Ans.-271.09 yards nearly.

Multiply $a-b+c-d$ by $a+b-c-i f$ and sabtract $(a-d)^{2}-(b+c)^{2}$ from the product,

A025.-WO. :

$$
\begin{aligned}
& \text { Simplify } \\
& \begin{array}{c}
\frac{2 a}{(b-2 a)^{2}}-\frac{b-a}{b^{2}-5 a b+6 a^{2}}+\frac{2}{b-3 a} \\
\text { : Ans } \frac{b}{(b-2 a)^{2}}
\end{array}
\end{aligned}
$$

Find the G. C: M. of $5 a^{x}+2 a^{2}-15 a-6$,


- (Artange the terms actording to the irs: cending powers of $a$, beginning with 6 and 12 .)


## EXAMINATION QUPESTIONS.

## HAMILTON MOHF.I. SCHOOI.

(Continused from pors. 5.jr.)<br>Mrosial Arithanction-Time, from one th tivo minutes rack.

1.     - If to my age you add three-fifths of it, and 55 years, the sum will be 39 years; find my arfe. Value 8.
II.--Ilow many yards of carpet, 27 inches wide, will cover a floor 8 fect 9 inches lung and 12 fect wide? Value 10.
III. -Three-fourths of 56 is seven-eighths of how many times t6? Value io.
IV.-When $\$ 400$ is paid for 25 acres of land, what will 1 acre 1 rod cost? Value 8.
V.-Square 15, subtract 25 , divide by 50, multiply by 225. extract the sequare root, add 34 , extract the square mot and mutiply by 250 . Value S .
VI.-Find the value of iour-fiftis of $6 \frac{1}{4}$, mirus three-sevenths of 14 , plus five-cighths of seven-tenths of 2 , and two-sevenths, minus twenty-five forty seconds of twelve-fifths plus 8. Value 12.

Vil.-A pile of wood 64 feet long, 6 fee wide and six feet high, sells for $\$ 72$, what is the price per cord?. Value 10.

Vrli.-How many boxes, each 9 inches long, 6 inches wide, and 3 inches deep, can te packed in a cubic yard?

## Hysienc-Time, one hour.

I.-Describe and explain the functions of the organs of respiration in man. Value 5.
II.-In what respect does the nir breathed out from the lungs differ from common atmospheric air? Value 5.
III.-Point out the different ways in which the air of the schgol-rọom is renḍercd impure, and the best plan of ventilating it. Value 5 .
IV.-What is the difference between an artery, and a y yin? ? Between arferina and venous blood? Explain the dunctionseof the heart, arteries $i$, and, veins, in ithe.circulazion

V. - ilive reasons for thinking that exercibe is necessary, and penerally beteficial to the health. Value g.
VI. - What is digestion? Fixplain briefly the ehanges that food undergoes in the process of digestom. Value to.
Vii. - Sive brief rules for peserving the health of the teacher. Value so.

## Arithtintic for kimeth Cilats.

1. The sum of $\$ 90$ is pald for a piece of. work. A works alone 4 days, then with $B$ four dajs, and then with $i$ and $C 6$ days; how should the money be divided?
2. Reduce $-\frac{-848857}{3.642857 i}$ to 6 places of decimals.
III. I spend . $007 \times 40$ of my moncy and find that the remaindier is $\$ 90$; wint was the original sum?
IV. A can d.) as much work in 6 days as $B$ can in 5 days; together they do a piece $f$ work in 40 dayc. Hlow long would it take each by himself?
V. Requited the cost of papering the walls of a rom 18 ft .9 in . long by 14 ft .6 in . wide, ahd 10 ft . high, at 20 cents per toll of 5 yards, alluwing for two windows each 6 ft . by $4 \frac{1}{f}$ f., a door 61 ft . by 5 ft., and the chacr parts of the wondwork, which are equal to $z^{2}$ of the remaining surface. The papor is two feet wide.
VI. A man spends $\mathscr{L} 50$ in buying egge at $11 \frac{1}{d}$, per dozen, and sells them at $2 d$. each; how much does he gain?
VII. How many bricks 9 inches long, 4 inches wide, nnd 3 inches thick, will be required to build a wall 60 feet long, 8 feet high, atrd $2 \frac{1}{9}$ feet thick, allowing fot two doors; ench 6 feet by 4 feet, the mortar being equal to to of the remaining wall?

VITI. $n$ of a number exceeds $:$ of $\bar{z}$ of it by 26 ; find the number.

Xx Multiply : 28175 'by di48 dnd divide the


COLVNY OF VICTORIA MOJFL SCHOML. OCTOBFR, RPO.
(Comsunud from fing 534.)
HMiOREF.
Examituer -. John . Dhaw.
t. Name the organs of respiration and circulation.
2. Give Juckton's classification of human food.
3. In cases of fainting, artery blecting. and partial deowning, about the schmol house. what inmediate steps wositl gous take?
2. The atlitude in stadying, drawing, wsiting and sewing, is controlled by what hygie. nic rules?
5. What games and modes of exercise and recreation would you encourage abott a rural school?
6. Write a note upon:-(t) The causes by which the health und cunstitution of children at school nee impaired, and the best modes of counteracting the same. (2) School light. temperature and ventiation. (3) The hygte. nic results of a growing chsid daily carrying to and from school a satchel of books, six to ien pounds waight. (4) The hygienic tendency of the schoul programme of the Province of Ontario.

## MENTAL ARTTHAAETIC.

Examineri-W. E. Tilley and James White.

1. If 1 pounds of coffee cost 60 cents, what will 4 pounds cost?
2. One person spends $\$ 7$ in coal at $\$ 9$ a ton and another $\$ 9$ in coal at \$it $n$ ion; what fraction of a ton has one more than the other?
III. By sclling a horse which cost $\$ 72$ I gained 7tiz per cent. of the selling price. Find the sellings price.
IV. John bought a number of calves for $\$ 80$. he sold 5 and afterwards $\dot{y}$ of the remainler at eost for $\$ 40$. How many had he bought?
F. At 61 per cent. what will le the bank discount on $\$ 149$ for 41 monthe?

Vt $A$ bought 3 pet cerst stock at $85 \frac{1}{2}$ and sold it to $A$ at $88 \%$ gaining $\$ 27$. Find the annual income from the stock.
VII. Five men hire a coach and when four more join them the cost to each is reduced \$1.20. What was paid for it?
VIII. At what must I marik goods that cost 60 cents per yar 3 , so that I may take off to per cent. and have $k$ prolit of iz cents per yard?
IX. If the interest on $\$ 900$ for 3 years and 4 months is $\$ 70$, find the rate per cent.
X. Bought an articie for: \$r. 06 on 12 months' credit, and sold it; at ance on 9. months' credit, so as, neither 10 gain or lose." moncy being worth 6 peicent. Find selling price.

The place of iron as sleepers for railways is likely soon to be takea by glass. But the glass must be filted for this parpuse by having its brittleness changed into a fibrous tougbness. This is done by melting the glass, moulding it into the required shapes, submitting it to a high temperature, and immersiug it, thus heated, in a cold oil bath. The toughened glass produced in this way is said to possess enormous powers of resistance a plate of about one inch in thickness not leing broken by a weight of nine hundred pounds let fall upon it from a height of seven-
teen feet. These glass sicopers have been made in pieces, each three feet long, and having their uppor surfaces suited to the inferior surfaces of the rails; and the experiments alteady undertaken and carried through have been eminently successfal. As glass does not oxidize or corrode in any way under ordinary conditions, the tempered or fibrous variety will, doubtless, for many purposes, be preferred to iron, i.c., if that tough, fibrous, non-crystalline state be proved to be a permanent one, and not easily altered by' friction.

## TEACHERS' ASSOCIATIONS.

## CHRONICIF OF THE MONTH.

Whntworth Trachers' Association. -The somi-annual meeting of this Associa. tion was held in the Collegiate Institute, Hamilton, on Friday and Saturday, the 15 th and t6th of October, Mr. W, H. Ballard, President, in the chair. The programme was both interesting and practical. Mr. Cruikthank dellivered and excellent address or Mathethatien! Geography, illustriting his ideas by a set of instruments. Mr. Smith, Public School Inspectork addrosses tha Aisspciation on tho Best, Mesbods of, Teaching Reading to, the junior clapsese Wro Hare followed with an excellent paper on the Schools of Germany, in which he traped the growth of the capeational system of that country, and explained the curriculum of sudios patsued 'in the rifferent grades of schools. fle ghve spectal prominence to the severo training to which teactiers are sabject, before they are permitted to take charge of a school. Mr. G. W. Ross, M:P., took up and discussed fully the subject of "Mistakes in Teaching Reading."

The Association met in the evening and after listening to a choice musical programme, provided by Prof. Johnion and the Glee Club of the Colleginte Iostitube Mr: G: W. Ross came furwaed and nielivered ars able and initructive. lecture on "Intellectual Forces." The lectute lastied about one and a holf hours, and was frequently applauded.

The Saturday morning seasion was opened by a disqussiun on the Best Method of Teaching Cumpontion. Mr. McIean, of Dundas, opened the discussion, and was followed by Mesars. Bissonelle, Herald, Shepphrd, John. son. F'. Sinith and [nspector Sinith Mr. G. W. Jahnsun, of the Gounty Majel Schoot, tead an excellent paper on Teaching History,
after which the leagth of school hours was briofly discussed by Inspector Smith. The attendance was very large, about two hundred teachers being present from the county and city. Afer the utual routine business had been concluded, the Association ad. journed.

Northumberland Teachers Associa. TION. Who semi-annual meding of this Assoclation was held in Cobourg on Thursday and Friday, 28th and 29th November. It wat well attendrd, and on the whole prived one of the most successful ever held in the coarity. Tho subject of "Recent School Leg. istation;" was ably introduced by Mr. J. Swift. After a somewhat animated diseds! sion, the following resolutions. were carried unanimously, I. Resolved, that we the.!exchcrs of the County of Northumberland, in -oríention assembled, do deprecale the action of the Local Legistature in the Province of Ontario, in permitting the shortening of the school holidays at midsummer, for the following reasons: 1. The best educators of the day are unanimous in their conviction that the interests of education will be better setved by shorterfing, not only the school term, but also the hours of datly teaching: ".2. That the depressing Inffernce produnced by cónfincment in the school-room during the period referred to is more aptrto retard than promote pupils in their studjes, and is desuruetive to the physical well-being of both tenchers and pupils. 3. That statis. tics shew that the attendance daring that perlod, espetiatly in country sections,' is smaller than daritig any $0^{\text {rhe: }}$ portion of the year. 4. Thine as there is no Government grant allowed for attendance during the ect-
infssive period, no pecumiary benefit an accrue to the sections which may adopt it. II. Resolved, that in the opmion of this Association, First and Second Class and Intermediate cardidates, who pass on the majority of the subjects required, and fail to pass in the othet groups by a percentage not less than half that reguired, should not be again
compelled to write on the groups in which they nave already pased, but only on those greups in which they have failed. flI. That a copy of these resolutions be forsarded to the Minister of Education.

## D. E. Stephenson,

Secretary.

## CONTEMPORARY LITERATURE.

## The Historical Reader. London: T. Nelson \& Sons; Toronto: James Campbeild Sun.

The publishers intend this manual as a Supplementary Reader, to be used in schools where history is taught. It consists of extracts in 'prose and poetry, bearing upon remartable persons and events in English Fistory, made from the works of authors of the highest standing. Though we do not endorse the statement in the preface that " the specimens of standard aumors which it (the book) contains will'encourage a taste for good literature," we certainly do think that putting such high class literature before our advanced classes will familiarize them with a jood English style; and this is greatly needed to counteract the bad effect of the slovenly writing to be found in too many of our school text-bonks. When we state that Hume, Green, Robertson, Macaulay, Kinglake, Carlyle, Firoude, Tennyson, Mirs. Bowning, and Cowper, are among the authors laid under contribution, our readers will infer that judgment has been used in making the selections. Among the subjects and persons treated of are the Roman Conquest, the English Conquest, Bede, Alfred, Death of Becket, Magna Charta, William Caxton, Mary Queen of Scots, The Armada, thè Herghts of Abrahan, the Reform Bibll. In futher proof of the earnestness of the publiskers to produce a really good book;, we have an extract from such recent works as Justin McCarthy's "History of our own

Time," and Kinglake's "Fistory of the Crimean War,", with a diagram of the battle of the Alma. Like the others of the Royal School Series, this book is enriched by vocabularies, of difficult words, by explanatory notes, and by sketch maps. We can strongly commend it for private reading, as well as for a class book in our schools.

A Graded Spelling Book, by F. H. Harrington, Superintendent of Public Schools, New Bedford, Mass. New York: Harper Brothers.
A casuat. glance at the contents of this book shows that it has been prepared by one who has had experience in school-room work. Its distinguishing features are seen at once. 1. In the early pages, the words for spelling are printed in script, as well as in the Roman type. 2. It is really a progressive spelling book. 3. Attention is confined in the ordinary lessons to words most frequently used, not only in ordinary intercourse, but in the common studies of the school-room. 4: An attempt is made to teach the proper use of words, by printing a few promiscuously, and subjoining elliptical sentences requiring their use. We think this, as an exercise, is. so admirable, fot alone in spelling, but in composition, that we give ap example from page 2 , second part.

Chiefy, preserved, crocodiles, reptiles, consist̂,' Jynx, sandwich, lizards, 'frightes, highly, remaikably, cracker, sardinie, 'esteemed, slices, toads.

Turthes, -, -, torooises and -are called -. The - is a kind of cat, and has r-sharp sight. Vessels of way - - of ships of the line, - , sloops, brigs, and schaopers. A is a small tish. When - inoil it is - ب- as an article of food. $A$-is a slice of meat between two - of bread. A - is a kind of hard biscuit.

We quite agree with the author that "it is idle to require a pupil, however young, to reproduce print forms." It is idle, because very little use can be made of what is thus learned afterwards. While, by learning to reproduce words in script, childten ard dctually learning to write; and if they have to leave school before they reach the classes where writing is formally taught, they will have acquired enough knowledge of writing to express themselves, though it may be imperfectly.
Should a second edition of this book be called for, we would advise the author to omit "giving the maning of those simple words that are alike in sound, but different in meaning. These, left to the teacher, can be explained more effectively athd trore fully.

In the lists of Christian names the äuthor has certainly not confined himself to those most in use. Very few scholars are ever likely to use such wordsas Alonzo, Ichabod, Elizur, yet these and many more such are inserted, while such names as Henry, often miss-spelt Henery, Arthur, Rachel, Victoria are omitted. The common word analysis is left out of the grammatical terms, though prosody, a word little used, finds a place. The convenience of the scholar has certainly not been considered in the binding, for it will be impossible to keep the book open at the place from which a lesson is to be copied without some artificial means. This is a fault too common in school books.

Methuds of Teaching : A Hand-Book of Piinciples, Directions and Working Models for Common School Teachers, by John Swett, Pincipal of the San Erancisco. Girls', High School and Normal Class. New York: Harper \& Brothers; 1880.
This book, says the author in the Preface, is intended-

1. Toruse in Normal Schools and Normal classes as a basis for instruction in methods of tenching.
2. Far the use of those who intend to become teachers without, taking $\mathfrak{n}$ course of professional training.
3. For experienced teachers who believe there is something to be learned from the suggestions of others.

The characteristic features claimed for this manual are :
I. Its strict limitation to the essential of Common School instruction.

2: 'Its Éondensed'and specific directions.
3. Its working models for beginners.

In this, bright and attractive volume we have the oufcome of the matured wisdom and experience of the Common School patriarch of Califormia, Mri Swett covers, in a methodical and lucid manner, the whole ground sketched in his preface.. He lays.under contribution the labours of Mill, Spencer, Tqndall, Fracbel, Pestalozzi, Bain and other great masters of pedagogy, and gives under the proper heads of his subjects faconic digests of their teachings. Without, at tempting to eplarge apon the many excel lent features of the work, we shall simply summaxize its merits by saying that it is a practizal hand-book of common sense in the school-room. We heartily recommend it to all young, teachers, and to all who rightly think that "something is to be learned from the labours of others." It will be found to be an earnest, stimulating, and suggestive work, and its perusal cannbt fail to add to the meptal equipment of the teacher:

Report on Education, by E. Seguin. Second Elition. Milwaukee, Wis. : Doerflinger Book and Publishing Co., 1880.
, Horace gives us the order of a Roman entertainment in the phrase ab ouro usquse ad mala-.." from the egg to the apples." Verily M. Seguin's bill of fare sets out ab ovo: he hegins, wish pre-natal impressiuns! The children of the future, are to be treated like the pringes of the House of Hapsburg, apd plaçed, under carefpl, training before ., thẹir
birth. We hasten to relieve our readers by assuring them that M. Seguin does not approve of competitive examinations at this stage or at any stage.

The author was United States Commissioner on Estucation at the Welt Ausstellun; (World's Show), of Vienna, in 1873; and the educational exhibit of that occasion supplied M. Sesun with the frame-work of his book. What is very rare in works on education, the author shews himself familiar with the bibiiography of his subject. He rightly traces the Kindergarten and the method of object teaching, past Frobel and 1849, up to Rousseau and his Emile. In that remarkable book, eighty-five years before Friedriech Frobel established his play-school, Frobel's methods had been clearly anticipated. A French modification of the same system is seen in the Salle d'Asyle, of Paris. of Brussels, and other large cities. This form of custoditn school for indigent children was originated by Madame "ape-Carpentier. The hours are 9 a.m., to 5 p.m. The chilltren are washed, fed, play-taught, rested, soup-fed, play-taught again, dismissed. Cradles are provided for the young philosophers, who find much play-a weariness to the flesh. The value of object-teaching at all stages of instruction is now conceded. Agassiz drice introduceä a briliant series of lectures by asking his students to bring next day each of them a grasshopper in his hand. M. Seruin would have schoul trustees con ulul scientific advisers on the furniture and sanitary condition of their builling: The school-desks approved by the Lend $n$ Schoui B.and were made under the duection of the cminent oculist Liebreich. The Swedish sch uldesk, slightly concave in fron:, appouches the pupil when he desires to write, and it can be ra;sed or lowered, so as :o adapt it, cell to his sze. Sanituy condition are less considered m schenh than furniture: sis our fori of intelligence are often foci of typh.il, scarlet fever, diphtheria and wher filth-dineases.

The special features recendy developed in European edacation ase pleasantly told. Switzeland is teyng to artesi emigiation, anl to bind her caildien to their hoines by
teaching horticulture as part of ordinary school work. France has discovered that Victor Cousin correctly foresaw the effect of Prussian education and French ignorance. ". Those who laughed at the prediction in 1840, tore their hair in despair in 1870." Italy, after a long nightmare, has awoke, and with returning consciousness of ber ancient renown, again aspires to a high place in art as well as literature. Glass-ceramic has revived at Venice; mosaic at Rome; statuary at Florence; painting everywhere.

Public parks might be made to yield instruction as well as amusement. In Bost $n$, the gardens adjuining the historical "Common" are used for the illustration of school and college lessons. Kew has seventy-ive acres reserved for the use of students. The Fardizt des Plantes, of Paris, was organized and re,srganized by Buff,n, Daubenton, Cu vier, De Jussieu, Lamarck; and became the laboratoryof De Blainville, Cuvier, Lacepede, in comparativé anitomy; of Claude Bernard and Brown-Séquird, in physiology ; of Becquerel, in electricity; the open-air studio of the sculptors Mene and Barte.

On the wbole, this is a thoughtful and wholesome book, eyen if its style is bizarre and Carlylese.

Nutes of Lessons and How to Write Them. By a Head Master under the Londun School, Board. 5th edition, 132 pp . 12 min Lundon: Moffat \& Paige.

Thts is a vaiumbe litule manual and will afferd much assistance to those who are preparing for the profession of teaching. It consists of a series of notes of lessons.in Arithmetic, Grammar, Geography, Natural History, eic., presenting in parallel columns the muter of the specimen lesion and the methol sargeted of teaching it and of placing it wn the bhackboard. In the pefatory mater some practical hints are given as to the plan of making abstracts of the lessons for use by the teacher in the school-room, together with some valuable counsel, an extract of a portion of which we here append :
"General Instructions to be borne in mind
and acted tefor, when preparing and giving lessons:-"
" t. Ptepare each leswon carefully beforehand, in order to be able to teach without reference to books, notes, etc., and have all the necessary apparatu ready before the lesson commences. If the teacher do this he will gain confidence when before the class and be betier able to maintain good discip. line.
" 2 . Place the blackboard, map, or other object of illustration in such a position that the whole of the class can see it, and at a sufficient height from the ground.
" 3. Place yourself in the position before the class from which you can best see and command every part of it, and never leave your place to walk from one part to another unless strictly necessary. A teacher contin. ually on the move can never obtain the attention which is necessary for a successful lesson. If only a purtion of the class feel that the teacher is addressing them at a particular moment, the attention of the others will not be kept up. One greai object of the teacher should be to make every pupil feel that he or she is addressed, and that each one is under the teacher's eye during the whole of the time occupied by the lesson.
"4. When teaching, give nll your explamations and currections in a clear distanct manner, addre-sing the whole class and not merely an individual chidd. Be cateful that the answer given by the child is audible to all the otherchildren.
" 5 Catechive in a lively, cheerful manner, in order to retain the interest of the children. Điscoutrage answers fronr several children at the same time. If this be not obierved there will be confuvion in the class. 1)o not allow a few quick, clever children to answer more than thi ir share of the questions, but be careful to exercise the mind of eac'ו. To ask an inatientive child a question on that part of the iesson of which yout have just heen speaking, yill le found in must cases a sufficient rebuke. As a rule avord questions which only admit of 'Y'es' or 'No' for reply, as these answers are often found to be zaere guenses. Do not be too quick in assisting scholas, to answer, for by so doin! they are often prevented from thinhing for themselves. Try rather to put the question in another form. Encourage the pupils to answer in therr own woods. By so dong the teacher is abie to ascertain conrectly whether the class unders and the matter of the le, son, and whether they are being trained to express beir thoughts readily.
" 6 . In curtecting entur it is oflen the wisest and best plan to addess the expla-
nation to the whole class, for although the error may have been committed by one pupil on this occasion, yet all the others were liable to have fallen into the same mistake.
"7. Do not be impatient with the slow ones. All must be taught, and must be made to produce the required gond resulss."

The Italian Princtpia - Part I.-A First Italian Cotrese, containing a Gramafar. Delectics, and Exercise Book, with Vocabularias on the Plan of Ir. Wm. Smith's "Principia lattina." New York : Harper \& Bros.; Toronto: James Campbell \& Son. 1880.

This work is a reprint, in Messrs. Harper \& Brothers' best style, of a text-buok issued by Murray, the London pưblisber, from the. pen of Signor Ricci, Professor of Italian in the City of London College. As the English edition of this valuable school-book may, from the very slight altention paid to the study of Italian in this country, be unknown to many of our readers, we may say. that it presents in one yolume, in the form and method of the famous Principia Latina, all that the beginner will require for some time in the study of the Italian language. Compared with the Italian grammars in common use, it has some features of special excellence, such as the very judicious arrangement and printing of the matter, the exposition of case-formations with copious examples, the idioms of current speech, e.g., those of avere and essere, the arrangement of the verbs in general, and the classitication of the irregular verbs in particular, the vast corpus of examples and exercises, and the exposition of the affinities between Latin'and Italian. It has all the good features of Zotti, Elsne and Monti, and will b: found, we think, for the purposes of learning to write and speak the language, a better book than any one of them. We would be glad to find that this cheap and beautiful reprint of a capital text-book would induce many to form an acquaintance with a language so much prased of Camden and Byron, so often heard, to, in concert halls and opera houses, and in not a few of our drawing-rooms.

An eminent authority,* quinted in our last issue, has recently repeated what is wellknown to scholars, that a thorough knowledge of Latin would enable the possessor after three weeks' study, to read with ease any of the Romance languages. May we not then hope that as facilities multiply amonget us, that many of our young ladies in the schools and seminaries, not to speak of undergraduates at the universities, and all who keep un a little post-graluate reading in "Moderns" will add Italian to their French and German, and be charmed no less wih "La Villeggiatura" than with "L'Allemagne " and "Stumme Liebe?"

A Latin Grammar for School.s. by Henry John Roby. London : Macmillau \& Co. ; Toronto: Willing \& Williamsou. 1880.

THis book is in the main an abridgment of the author's famuts grammar of the Latin language from Plautus to Suetonius, " some parts being reproduced with slight omissions, some parts being largely reluced and others again being re-written. Abridgment though it is, it is yet a formidable looking book to be put into the hands of ordinary schoolboys, crammed as it is with matter, from Book I. on Sounds, through inflexions, wordformation, syntax, supplement to syntax, appendices, to translation of examples in syntax. If this work is suitable to the boys in Eton, Hatrow, Rugby, and other English schools, and we make no doubt it is, at least to the upper forms in these schools, then nothing can more clearly shew the great, but we hope lessening, distance between the classical attainments of the English school-boy and his Canadian contemporary.

It is almost needless to state that this work proceeds to a large degree along the

[^7]lines laid down in the Public School Catin Primer, and that it deals with every topic under discussion, in a strictly ecientific manner. A single specimen (f. 38) will suf. fice.
"DA-R-E-M-us is the first person plural, adtive voice, imperfect subjunctive, of the stem ma-gize. The sound r denotes past time, w the mood of thousht (instead of fact), $m$ the speaker himself, us the action of others with the speaker. Thus baremets analyzed is size-did-in thought-I-they. If for - C , we have -UR (Darmmer) the speaker and others are passive instead of active."

Withoui attempting to do more than to draw the atrention of onir readers to this excellent hand-book of the Latin tongue, we may indicate as features worthy of special mention, the fulness and completeness of the word-forms even in the matter of Greek words occurring in Latin authors, all developed in strict conformity with philologica' principles, the alnost exuberant richness of the syntax, especially of the subjunctive mood, the chapter "of reported speech, the trans!ation of the examples in syntax, gathered together in ain appendix, and forming no less models of rendering into English than an invaluable praxis fur Latin composition, and the Exceedingly copiou, and systematic index that greatly enhances the value of the book. We hope to see the day when such a work as'thits will be a suitable text-houk for our High Schools generally. Doubtless it will soon find its way into the hands of the duces in our best schools. Meantine we commend the work to the notice of those enigaged in teaching Latin, and to the Honor-nien at the Universities. In "complere pussession" 'of this text-book, the student need not fear the stiffest Paper on Latin grammar that mdy be put before him. Unless we ate greatly mistaken, it will be the School Latin Grammar of the next decade.

## THE PRESENT EIDCCATIONAL SIIUATION.

The remark is neither new nor profound that this is an imperfect world. The year now come to a close has, in matters educational, added much to our experience of this fact. Fiom the top to the bottom of our School system, imprefection, and not a little that is worse, have heen dragged out into view. The age, perhaps is an over-critical one, and the year that has passed has spared nothing. But it is well now and again to have a year of reckoning. Periods of somno. lence and complacent jog-trotling are never healthy. One particulat characteristic of the past year will have struck most of our readers, viz.: the growing disposition to prerhaul things, and an inppatience with the çondition of laissez-faire. This spirit has particularly manifested itself in the domain pf education. For years our men and bys ${ }^{-}$ tems have goue on in a given groove, and the educational administration has felicitated itself and 1 een happy. Lulled by the times it grew. "wooden" and autccratic, and officialism and circumlocution flourished. Then came the disturbing year, and with it the present period of dissatisfaction and unrest. Now, not pnly the machinery of instruction is being overhauled, but there is a disposition to reconsider its purpose and reyise its work. With regard to the machinery of education, The Monthly has already given voice to the protest against its ineffciency and partizan character. Mr. Crouks, we have frequently admitted, is industrious and well-meaning, and as the figure-hear of the Department bears himself well to outside observation. Among those who have professionally to do with him, however, the almost universal opinion curtent is, that he
is not the man for the office. Few, we are repeatedly informed, care to have any personal relations with him, and correspondence with the Department is rarely satisfactory and never plea ant. If we weigh the acts of the man against his manner, we do not improve the picture, for the Minister is unfamiliar with his work, vacillating and inept in dealing with it, and unyielding when, as is often the casi, it is wrongly done. A politician, and a party man, he imports into his office the tac'ics of the one and the prejudices of the other. Ihe scandal conneated with the Central Committee, which he has suffered so long to thint the Department, is proof of this. Whatever shuffle he may now make with reference to this body should not exempt him from parliamentary arraignment on the charge. 'His attitude in rer gard to the disposition of Upper Ganada College, also shews how little he is in sympathy with those whose interests ought to be his. That he should so handicap the institu. tions that are the best fruit of the school system proves him disloyal to his office and unjust to the profession. The lax, perfunctory work of the Nurmal Schools, and the University imbroglio, fill up the measure of his cup.
All the while Education cries out for a competent head-one who will not be under the illusion of his office, nor unskilled in the duties that belong to it. Rarely has there been greater need of a man of ability for the post; and in every tranch of the system the need is felt. A man of ideas, of enthusiasm in the work, and devoted to its service, was never more a deside:atum of the times. The whole educational systen is in need of revision. The profession is overcrowded, and the facilities to enter it are greater than the need of the country calls for. The standard
of admission, moreover, is low, and the emoluments of the teacher are consequently poor. How to meet and deal with theae defects, as well ns to readjust the programmo of studies to the common-sense views to Which the public mind is now returning, calls for the action of an able and large-minded administrator. The lack of thoroughness of tenching in elementary subjects, and the time misspent in studies of a fanciful and umpractical character, ulso demand attention. It is more and more clear that we must be satisfied with a less ambitious education, and what is taught should bear better fruit. The forcing system applied to all and sundry is assuredly bad. It is of advantage neither to the pmpil nor to the country. It were better t.) have a luwer and more level degree of culture, and let that be suund and not artificial. Even in a college education there is much of the latter. We miss the fondness of learning for ths own sake, and there i, too much of that which tends to create a prejudice against bonest labour and to erect artificial sucial distinctions. Education will naturally elevate the sphere of a man, but il should aiso elevate his work. It should be the aim of education, that the farmer shall become a more scientific one, and the mechanic one of greater skill-not that either should be other than he is. It is the weak point of our school system that too many of the pupulation who receive its benefits are educated out of the sphere to which they socially belung. Such a course withdraws from the class their picked mea and chuicest leaven-two often, alas, without improving their condition. These, and such like prublenis, are fast becoming the questions of the cime. Would that we had a man to deal with them !

## THE CENTRAL COMMITTEE.

The current number of var contemporary, the Canada School Fournal, which advertises " Powerful Educational Essays!" (though it promises rothing in the way of grammatical or orthegraphically-cortect 'ones) as an attractuve leature of the publication, has a flatteing and, we suppose we are expected to
say, powerful ohituary notice of the C'entral Committec, whase demise the Minister of Education has just determined on. The decision of Mr. Crooks nfficially to wipe out of existence the Central Committec, as at present constituted, we may safely harard the statement, is no net of his own volition, or rather of his own suggeating. The truth is. it has heen forced upon him by the seandal created by the acts of some of the members of the Committee, and is obviously a yonlitical stratagem to ward off aggressive criticiom at the supronching session of the Local I.ecislature. No doubt our legislators will see Mr. Crooks's motive in its proper light, and will not allow him to escape censure for the polttical partizanship which held his hand from the decapitation of the offending Committee. men when regard for official propicty, integrity of conduct, and the purity of the educational administratiom of the Province called for instant and summary action. In the Sthool fournal atticle, which consists mainly of a piteous appeal for the diversion of the expectant stream of public gratitude towards the advisory body of the Minister, rather than towards the Minister himself, we are told, as an excuse for the long retention in office of the Central Commitlee, "that irwas necessary for the due compietion of important changes" (in the educnfional system) " that the same hands should carry on the work from first to last. Any change in the personelle* (sic) of the Central Conmittee," it is atdded, "would

[^8]have disturbed the crystalizing (sur) proocss." To this argument we could havo hitte reason. ably to say, had the labours of the Central Conamittes been contined to the publue service, and not, ns was the case with some of its members, to the service of their own pocket and that of a publishing firm with which they had intimato personal and business relations. But, fortunately for the Province, in the discreditable state of things that cane te light, there iuas a disturbance of this pretty "crystalizing process" which renlly meant, as our renders know, the iniroduction into the schools of all the publications of a favoured house in the trade, and the ejectment with mathematical certitude of every work in which the memiers of the Cummittee or their publisher-colleague had nut an interest. That this iniquituus design was bappoly frusm trated, we have to thank neither tho Minuster nor the membery of the Committee whose: hands were clean. Mr. Crooks, at last awakened to a proper sense of thovenality of his advisors, now wishes to shew how keen is his perception of the dishonour attaching to their actions, and proceeds to pass a sponge over bis Council Board, which be hopes will clean the slate of its dirty record. We are honest when we tell him that we trust it may; but we skall be much surprised if the tracings of the scandal be not still legible to the scrutiny of Pariament, and if it fail to insist upon more radical shanges in the Department under his charge than any he has so far contemplated. Complacently, and with a becoming submission to fate, the writer we have already quoted adds, that " it is very advisible (sic) now tha: the examination system is thoroughly organized by the labouss of the Central Committee, to give the system the benefit of a rotation of Examiners." Yes, it is very advisable (as we venture to spell the word); and it is a pity that in the interest of education; the plan of a rotation of Examiners was not hit upon long ago. But the present crisis in our educational affairs to which we have here and elsewhere in the present nunber alluded, necessitates a more thoruugh reconstructioh of administra. tive machinery than Mr. Crooks designs in
introduang this change: and we are not unmundful of what real service the Central Commiltee bai rendored to the conftry, in giving expression to thes opinion.

## THE "IYSSTANTIFR" ON EDUCA. TIONAL MATTERS.

Or the subjects of comment acver remarkable for their wide range and scholarly handlipg) in the new wumber of the Rystander. two will be fuund of supreme tmportance to wur readers, viz. . those enutled "Public Education ip Onario," and "Upper Canada Cullege." Huth are referred to in view of their furming the suluects of debate in the fusthruming sesstun of the Untario Paritament. They are treated of breehy but sug. gestively, and with a conservatusm of utterance befiting the jmportance of the subjects, and manfesting mature and thoughtful views in regard to them. Disavowing any desire to sit in juigment upon the educational administration of the Province, the distinguished w riter expresses the opamon that as our school sy,tem has in some degree been experimental, "the time for reviewing the results of the experiment may have come.": With this apolugy, in a fey sentences, he twuches upon the cost of our school system, the programme of siudies, over:education, co-education, the danger of over-orowding the professions, and other aspects of the subject of a disturbing and disquietang char-acter-adding "that a Commission of Inquiry would not be premature, and anight be of use, at all events, in dissipating mirgivings, if they are unfounded, and assuring us that we are in the right path." Referring to the Executive of the. Department, the writer deprecates "the connection of education with politics and cabinet government," and truly says, that the experiment of 2 Minister of Education "has not been whol.'y successful." He adds that "there are some who think it advisable to restore the Council of Public Instruction, or to institute some body of experts, mature in judgment, unconnected with politics, and placed above the suspici in of outside influeace, for such functions as it
might lie filted in pertorm." Thero can be liftle dombs, indeed, of the urgeney of action in this direction, whleh wo ourselves have repastedly tugeresterl.

With regard in Upper COnada College. the lenrned writer correctily affirms that "it is difficult to vindiente on pribetple the duplimate aytem of local High Schonks combined with a great central college for the satue clase of pupils. The College is, in fare." he adds, "a surviurl from the eduentional ora before High Schoois," and, retaling between the lines, there is bittle diffically in concluding that the writer's opinion is that the institation should be nlmbigised. This inference is strengthened by the remark, with which the writer concludex, that the endowment, should it be placed at the Government's disposal, would be wisely expended in forming a College for Women, "where Art of every kind and grade, music, and evergthing else specially pertaining to female cultuse might be taught."

## WIIITBY COIIEGIATE INSTITUTY.

Thi: heart of Whithy rejcices, for the IIigh School of the town has been elevated to the dignity of a Collegiate Institute. In an age given to heap extravagant honours on the champions of the muscle, let us not omit to give the intellectual athletes at least their due. The credit of the wellwon honour we chronicle more immediately belongs to the present scholarly principal of the school, Mr. Geo. H. Robinson, M.A., whose high attainments nnd great enthusiasm in the cause of advanced education have enabled the trustees of the institution to claim place for it in the highest grade of the schools of the Province. In this success, Principal Robinson, and the masters who are loyally associated with him, are to be congratulated. Those who have preceded them in the same work are entitled also to their meed of praise. 'For a number of years back the Whitby school has beden'push ing to the front, and it was felt that the fime would soon come twhen the honouts and emoluments of a Collegiate Insitute would
be within ber coroted grasp. They are now hers, and the phesecsion of them will donblices ant sas 2 spurs to both trustees and macters to continue to achereve great things in the canse of higher education. Asa centre of Intellectual hife, Whitby, decphte her e.maparatively small population, has an honourable recotd the distinction eon. feefed upon the lifg school is itself a mark of the intellectual status of the commenity. It alon pleasingly indicates the existence of a iaudable pude in a local inctitution, whech, do attan to the honours it has won, must have had the liberal and enlightened support of the townspeople. On what worther object could a community spend its effers? The institute is worthy of the pec: ic, and the people worthy of the institute. May both continue to flourish!

## ANSWERS TO CORRESPONDENTS.

[In nnswer to "Inquirer," Stouffille, we append the following,-En. C. E. M.]
Afpanage is pronounced with the aceent on the finst syllable. Lycam has the accent on the second. In the word. //oliday, custom has changed the orthography from ' $y$,' in the word as it was originally spelled and pronounced, holyciay, into ' $i$ ' and made the first syllable rhyme with Pull. In the word fiatriot divide the syllable, thus : pa'dri-ot, not pat'ri-ot. Irish rowdyism has been called "Pat-riot-is"." In the words beticue and rescive it is a common orror to reverse the dipthongal letters ie and ui in writing. A convenignt rale for the spolling of such words is this: ctakes ciafterit; all other consonantsare followed by ia: as decave, reprieve. Sar-da•na-pa'-Utes is pronounced with the accent on the ph, and not as if written Sar:-da-rap'-athus. . Niscellary has the accent of the first syilable mis'" "A Cadmean victory" was one in which the victors suffered as much as their enemies. Rodomontade means bluster or vain basting. The origin of the word is to be found in a chapacter, in the, Orland Furiosa of the Italian poest, Ariostg; .. who was named Redpmonis. .

Tun Elora Public Sehnol rectives the Woather Probabilities daily from the Toronto Oiservatory, by pecial arrangement.

Tirf. Rev, John Rodgers, the energetic and ubtiring Vice- Chaiman of the London School looard, has gone in his long rest. In him london has lost one of the most enlightened supporters of popular oducation, and the teachers a warm friend.

Dwes Sorend felicitates itself on the possession of new buildinge for the fligh School of the town, which have just been erected at a cost of $\$ 20,000$. As the institution in Owen Sound ts the only High School in the County of Grey, the buildings have been made capable of giving accommodation to 400 pupils. We commend the liberality of the townspeople in providing so generously for the education of the youth of the town and county. May the school continue to take high rank and foursish.

OUR teaders, we are sure, will be glad to learn that Prof. Goldwin Smith has consented to the compilation of a volume of his lectures and essays, chiefly of a literary and historical character, which have appeared in Canadian periodicals and in the magazines and reviews of England and the United States. We need hardly say to the constithency we address that a great treat may be expected, for the volume wall enshrine not only much of the mature thought of a great thinker, but also the ideas of a scholar in a scholar's language. Arrangements thave been made to supply the profeasion with the work at the price of . $\$ \mathbf{1} .50$. We learn that Prof. Smith's Cozoper, in Mr. Morley's series of "English Men of Letters," has renched a sale of 5,000 copies in England, besides the sale of the edition sssued for the Amerlean market.

Several of our High School Mastefs'are at present-shewihg a furdable amtilion in the compilation and editing of editions' of Classi-
cal texts, and the passing throught the press of other and ortginal word in authorehip. Of loroks in tho former category which ato to issuc immediately. we learn that two may be looked for, viz: frow Merss. Willing \& Williamgon, an edition of Ovid's Fasti, Books $V$ and Nill, with notes and a vocabulary, by Mr. Geo. F. Shaw, B.A., of the Collo. giate Inctututa Toronto; and from the Canada Publishing Co'y, an edtition of Cicero "Pro Archin," uarier tbe editorship of Mr. A. L. Parker, 13.A., of the Collegiate Institeto, Cullingwood. Loth gentlemen are good scholars and painstaking, industrious masters, We have no doubt, therefore, that their work wil! be highily creditable both to tbamselves and to native scholarship.

We shall readily be pardoned tor direciling the attention of our readers to a series of papers now appearing in the Canadiár ATonthiy,' from the pen of Mr. J. G. Bourinot,' B.A., of Oltawa, on the subject of "The Intellectual Development of the Canadian Ptople:" In the second of the sories the author has given us an inieresting historicalre. sumf of the efforts put forth from the earliest times to give to Canaria the benefits of education. Beginning with the year 1616, Mr. Bourinot traces the history of education in the Lower Province, and awards due credit to the labours of the various religious Orders in founding and endowing the scbolasuce institutions which were ever the object of the wise solicitude and fostecing care of Mothar Church. Passing the Puritan reatod, with a just com. pliment to the schoul fi ws of the New. Eng: land Fathers, our author glances at the progress of education after the Cpuquest, and rapidly passes to its history in our cown Province. II ere we have some interesting records of much value to the historical sty: dent; and aş the canvap broadens, it the descent to modern tineses, the paper becomes statistical bus npne the less instryctive In the latter portion some comments are made on subjects of considerable present interest ty the profession, which , had ye space at command in the Rresent aumber, we should have been glad to reproduce in our columns.

This. however, we may be albe to do in our next issuc. Meantime, we have much pieasure in expressing our obligations to Mr. Bouritot for his industry in preparing the admirable paper he has given us, and we beg our readers to refer to the interesting serics of which it forms a part.

Witu the next issuc the Canada Educa. tional Monthly will begin of third volume, and, it is hoped, enter upon a further period of prosperity and usefulness. Owned, and, in the main, cenducted by teachers, it is the aim of all connected with it to make the publication indispensable to teachers. If it has a claim at all for support, $i$. lies in that fact, with the additiona! one, that the design of its promoters is to make Tue Monthly a worthy and independent organ of the profession. That the founding of the publication has been a new departure in educational journalism, and has won commendation and success for what it has aimed at and accomplished, the establishment of one serial upon its own model, and the announcement of another, is decisive proof. In the interest of education we have hailed the appearance of one and shall hail the coming of others, if the motives that have led to their projection be but disinterested and their literary management good. Before receiving support, however, this test should be applied and acted upon: On these grounds we ourselves have appealed, and still appeal, for the support by which such enterprises can alone be prosecuted. But it should be remembered that the field for professional magazines in Canada is limited, and that teachers, how. ever enthusiastic in literary matters, can ill afford to support more than one publication. There can be little encouragement, therefore, for many projects, and competition means a precarious existence for all. Publications issued as business organs, of course, may be sustained by their owners for the purposes of trade. But these can be of small service to the teacher, and of no value as an independent exponent either of him or his cause. Of advertising journalism the profession, we
should say, has had ennugh. Let it support what disinterestedly speaks in its name and secks solely the benefit of its cause and work.

Rons in Picki.e. - The Home Secretary is not the man to let grass grow under his feet when he has an object to achieve, and has made a start towatls it. Closely follow. ing on his letter to the mayor of Manchester on the subject of the treatment of juvenile offenders, appears an anmouncement that a supply of birch rods is on hand and ready for distribution among the various police courts. The rods are described as being rather more than a yard each in length, and as teing well suited for their purpose. At every police station a constable is to be appointed flogger-in-ordinary, but the small culprits it will be his duty to operate on are not to be left entirely to his tender mercy. Billy Jones who lets off a squib in the street, or makes a slide on the pavement, and is sentenced to six strokes of the birch, will have his medical attendant present, just the same as tise Old Bailey ruffian who is doomed to the Cat. Contrasting the English method of dealing with juvenile criminals with that of the Dutch, George Augustus Sala, in the Lordon Illustrated Naus, says: "Boy burglars, boy pickpockets, boy robbers of tills and filchers of tradesmens' goods, and boy and girl 'hoodlums' (to use a Californian term) swarm in our midst. Boy roughs pelt each other; and the public at large, with stones; the Board School boys, as soon as school is over, gather in gangs in the streets to indulge in free fights. with the children of other schools; and the railway companies are fain to employ detectives to watch for the hendishly mischievous urchins who are in the habit of placing stones or pieces of wood on the rails with the view of upsetting trains. And with all this it does not seem that we have yet mastered the $A B C$ of how to deal with juvenile offenders. Is Parliament really 'the collective wisdom of the nation?' I confess that I am growing somewhat sceptical of that pseudo-sapient common-place." $-E x$.


[^0]:    * This paper was recently read before the Teachers' Association of the County of Ontario, and is now published by request.

[^1]:    * It is to be bepad that under it the lower class of the next generation will be very different from the lastd Recently the writer called on ian old coruple. eridently from England, neither of whom could read. Not sufficiently famifiar with provincial dialects bo asked what part of the country they were from, north or south ? Couldn't tell. What town were they neary Exteter, in Devonshire.

[^2]:    *. Reprinted from Prof. A. S. Hill's "Principles of Rhetoric."

[^3]:    * In this sentence, the word " or" is not a disjunctive, but has the force of "otherwise called."

[^4]:    *For punctuation of independent clauses not connected by a conjunction (successive short sentences), see XI., p. 549.

[^5]:    *See also XII., (a),

[^6]:    * Seee also IX. (c), p. $54^{8}$ and XI. (6), (a), p. 549. + See XVll., p. 5si.

[^7]:    - Professor Goldwin Smith.

[^8]:    - The unfamuliar form of this word, in the sense, at teasi in whath it is used, will be no surprise to our readers who are acquainted with the orthographte comages and the playful eccentricities in spelling, which are oo eminefily characteristic of vur contempurary. Lo occurs to us, howe ver, tqaisk if the - Directing IInd," when he peuned the article, which we rake tub bo his, imagmed that the word took on a feminine termmation and was proper to be used as applied to a body which we have an ldea he wished to reprevent to the coming htatorian as a feimale conclave, and thus tasten upon the other sex the disgrace whach has fallon upon the Commitiee under the present educatuonal resione. However this may be, the "staky opelling " in the artale indicates the himationt of genms, and suggests that as Nature hav: drawn the lane of economy of gifs, in the case of the Sienior Inspector, at orthography, Eiaglish as well as Fremeh. it is folly to contunue to entrist the examinat on of the shools in " / subject: to an Inspector who. if anything, is 2 -pecialist, and who, particularly in the more pracuical departments of education, is signally lachin, in that braad ser.eral culture so e esential to thoefficient discharge of the duties of one holding his position.

