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## MISSING

question of traincel ve untrained teachors for the rising gencration receive so litile attention? Sovero penalties are enacted against quack doctors; empiricism is seldom urgeil agamst those who, without training, perhaps without oven mach consideration, presitme to form, equip, regulate, in short, to educato immortal ininds.
Of this subject moro again.

## What are IKindergartens?

This is a question we have often been asked, and havo always talien great pleasure in answeriug. The name $1 s$ no doubt strange to many of our readers; but when they know its true meaning, "the Kindergarten" will be a favorite word in overy home in the land. The Kindergarten is a bridgo between the nursery and the school, in winch the mand of the chald is relucated by labor. The Kudergarten materials are nut alphabets, and books, and copy-books, but wooden blocks, planes, littic sticks, strips of different colored papers, pasteboard, colored threads, slates and pencils, and sheets of paper. Long before a child can learn its letters, it will readily learn how to do a great many things. Little children do not understand a twentieth part of the lessens learnt in teat books. Tho ideas of grown people are given to them too carly. Chuldren who do not understand what they aro set to learn will naturally fall into listlessness and idleness; from this to restlessness, for the young mind mutst be engaged ; from restlessness to mischief-and so the character is warped in chuldhood and can never be straightened. The inventor of the Kindergarten, Froebel, has bencfited humanity. Let our children be taught in these schools by the eye and the hand, to measure, to weigh, to fit together, to build, to cut, to armage, to observe sizes and positions, to draw, and by this means they will acquire more practical knowledge in a month than they could get from text books in several years. Let the child take to its favorite occupation-whether drawing, or building a house, or making a bridge, or initating a doll's dress, or counting on the sticles-and while the ardent mand is thus pleasantly engaged in learning or in trying, thero is going on tho best discipline for aftor years. With such teaching it will be easy to fight down coarseness and rest)essness, and many children will be saved to be good and great men, who might have run away, or be come lost and demoralized by beginning to learn nuder the dry and unattractive text book system. This is what the Kindergarten means, and we hope to seo before long every infant school throughout Canada conducted on the Kindergarten principle. There are many such schools throughout the United States, and wherever establisned, readily find favor among the people.

Tho following from the Loncion Advertiser will explain Frocbel's system:-
"Hilf a dozen boxes of children's toys, with innuinerablo paophlets and ty-sheets descriptive of how to use them, have been placed in our hands by Herr E Steiger, of Now York, a manufacturer of the articles used in the Kindergarten system of instruction. Though by no means a nert thing, the system of directing the play of young children so as to manuster to their education $1 s$ uncommon and deserves description in detail. Fricdrich Frocbel was a German who had been brought up without maternal carc, and liko most children he fothd the restraints of early school hfe very irk-
some. Ho dovoted a lifotimo to perfecting a systom of instruction for boys and grls from threo to soven years of ago, having adopted for his motto tho pretty phrase © Komme latzlalat uns uneern Kindern lehen. Judging very rightly that neglect or mistakes in tho nu'sery endanger health and happiness in aftor life, ho sought to drect tho mental and physioal energies of chiddren in the right path from the time they were ablo to receivo impressions and classify them. Cramming tho memory with indirestible facts was the shoal to be avoided, ani chiliren's natural tendency to play was the chr racturistic to lo utilized. Through play the fact: is of nund and bociy are developed, and when properly directed, halits of industry, perseverance, order and regularity are acpured. Amusement and instraction are to be cumbued in the uso of Frochel's 'gifts,' as he calls the implements of his pystem. In Germany many Kindergartens are establishci, and in parts of the United States the gystem is riewed with favor. It 18 oven proposed to engraft it upon tho public schaol system.
"The toys are simple and inexpensive, yet capable of infinte variatious. There are littlo sticks of various lengths, perforating paper, a slate for drawing, paper of various colurs cut into lengths for plaiting and weaving, \&c. With this, children scated at a table, divided off on the top into squares of use inch, are set to work. Patience and adaptation to the business are nccessary for the teacher, who must possess the confidence of the children to be able to direct their moveroents. Of the effect upon the little pupils, olservers say that the Kindergarten develops a capacity for quick and clear perception of form, size, color and sound; it trains all the senses, gives skill to the fingers, health to the body, cheerfulness to tho mind, trains the moral faculties, and is a primary school for design, where the artistic tendencies of the child are cherished and cultivated, so as to materially increase tho means for has futuro usefulness and happiness. None of his faculties are allowed to die out through disuse.
"Perhaps an idea of the system can lo given better by the account of a visit to a Kindergarten than by secking to impress what most thamking persons will readily admit-the strength of the impression a child receives at an carly age whilo at play. A visitor narratives that ho found the chldren forming a pretty star sLaped figure upon thetables in one of them, beingsuided by the teacher, who told them where to place each piece. Each was then told to produce figures of his onen invention, using all the preces, the result being some wonderful combinatious."

Wo clip a continuation of the description :-
"This is the method with all the occupations: First. the little oncs are led; then they are allowed to go alone. Thea came some very simple aud casy cxercises upo: sll $z^{+e}$, mardicd off in syuares like the blackbuard. urem whin they coped their work. They earlinade such picture as pleased them best. It isl thar work they had the sympathy amd cacouragenicut of Mrss Helk, praising them when it was done well, and helping on those who nceded assistance.
"After this occopation was concluded, folding doors were oponed into a room still larger, also sunny and bright, and the chiliren marched in to tho music of a pretty song, in which all jowned. There for half gn hour a scrics of games wero I played, uniting ginginy, simple gymnastics, and
sport, to tho intense delight of tho participants, and the by no means slight enjoyment of the look-ers-on. These games have all a meauing and an object, and are arrauged with a view to the harmonious and lealthy growth of the child's mental, moral and phyaical nature.
"A After a ehort lunch, the occupations were rosumed. When they first gathered around the tables, it seemed not unlike the assembling togother of quite a number of ladies at a tes party, the conversation was 80 brisk and eociable, but in three or four minutes each child was intently ongaged in sorring in and out with colored worsteds. It was not like a school, there was no repression, no enforced silcnce, no fears of the raw-hide or the tcacher's frown, no books, no punishments; it was rathor like a cheerfui workshop where each was absorbed in his work, not as a disagreeablo task, bat rather as a delightful occupation. Strict silence was by no. means cnjoined, and if after a fon minutes of employment a happy thought occurred to any little worker, he was encouraged to speak it ont, and whon any one was pleased, he was allowed to laugh. Whilo the rest were at Fork, it occurred to a bright-eyed littlo fellow that he would like to recito a verse ; leave was granted, and we nndoubtedly got the bencfit of his last ex. cercise at the Sunday-school. A little girl followed with a verse that was evidently original, and none the less interesting for that; and then one volunteored a song. The charming innocence and unconscions simplicity displayed in thear little interludes, were facinating. There was apparently Do thought of showing off, nothing got up beforehand for the occasion, but they were spontaneous outbursts of their happy childsh natures, mingled with an evident desire to do something that should meet with the approval of ther friend, Miss Held. Still the work went on aud the beginaing of very pretty designs was wroaght out. The children seemed happr, but not ivisterous, attentive to their play work, but nut stunted into stupid apathy. It was order, and such order as scemed the outgrowth of the iudavidial of each child. And yet they had only been tro or three months together, at longest, and most of them a mandi less time. How such order could be wrought sut of the chaos that must have existed on the first day, is a mystery which one could hope to solve only after frequent and prolonged visits.
"The occupations are taried every day, and we only regret that our stay was too short to permit us to see the 'Bnilding,' ' Weaving,' 'Folding,' 'Peas Work,' 'Monlding in Clay,' and other Works which they do."

In ninetecn of the Merican States there is gratuitoas and obligatory instruction. They have 8,103 schools and 369,000 pupils. The instraction consists of reading, mriting, Spanish grammar, arithmetic, the system of weights and measures, "morality and politeness." In addition, they teach in nearly all the schools the dutics and rights of the oitizen.

John Howard mas born in 1726 ; made sheriff of Bedford in 1773 ; inspected Euglish prisons, and geve Darliamentary ovidence thercon, 1773.5, which led to imprisonments. Ho afterwards visited prisons all over Earope, and died of a fever, contracted in visiting a pestilential Rassian dungeon at Kherson, on the Black Sea, in. 1793 .

## Contributed.

## The Centennial andíts Educational Featiŕtis.

## No. 4-Continued from Last No.

Since tbo last article was written, the great Exhibition at Philadelphia has been formaliy closed, and must now bo spoken of in the past tense. This article will be devoted to a brief reference to the educational exhibits of some of the other States of the American Union.

Massaciusetrs. - The exhibit of this State was in the gallery over the east end of the Main Exhibition Building. This State made a very extensive and very creditable exhibit. Foremost among these were specimens of drawing, exhibiting the manner in which drawing is taught in the schools. For instance, some:of the specimens showed how drawing and botaniy are tanght simultaneously. Any plant may bo selected; then the pupil is taught to draw its varnous parts, at the same time learniog their names; then these are combned so as to form various figures by which the whole is indelibly impressed on the memory, and at the same tume facility is acyuired in drawing. An object of interest was an album containing photographs aud sutographs of all tho leading historians, statesmen, orators, and other noted men of the State. Like other States, the exhibits here were largely composed of specimens of work by the puphls of the various schools. A prominent object of interest was the exhibit of the Boston Public Library, which contains 100,000 volumes, and is so perfectly conducted that not more than 100 volunes aro lost annually.

Onio. - The exhibit of this State, and of all the ofler States yet to be inentioned, was in the South Gallery of the Main Building. Thas Stato made a very good display. On large aheets, having $z$ white back-ground, red circles indicated by their comparative size the extent to whech each branch of study is pursued in the schools. It was worthy of note that the smallest circle of all was that representing moral instruction, and though this fact did not seem to speak well for the moral training the pupals were recerving, the gentleman in charge expressed the opinion that other States could mako no better exhibit, if equally honest. A gooul deal of pains was taken to show by means of maps the school statistics of the State. From all that Ohio shorred, it is ovident that her schools are in very cfficient condition, and that her teachers and superintendents are among the best in the Union. The city of Cincinnati made a splendid exhibit, showing 91 volames of school work, of which 16 wero German. In tho Cincinnati schools a great deal of attention is given to music. The city of Cleveland also made a large exhibit, troo features of which are worthy of special mention. Cleveland has a system of her own in traching drawing. About an hour and a half a week is devoted to it throaghout the entire scheol year. Pupils begin with line drawing on slate and blackboard, and then pass on to drawing of objects. Music is also introduced in tho first school ycar, and continued throughout the entire course. Specimens of written examinations were very creditable.
Ilinvois.-The oxhibit of this state was at the extreme west end of tho Soath Gallery of tho

Main Building. Like all tho others, it was largoly mado up of apecinitens of school work. Upwards of sixty volumes of ryork from twenty fivo High Schools wero shown, including thu Chicago High Schoul. The Illinoi Iodustrial Uuiversity, situated at Urboun, and 复位ded in 1868 , has a very promiuout place in this ©xhibit. This University owas $2 \overline{5}, 000$ acres of land, besides invested funds amountug to $\$ 350,000$, buldings valued at nearly $\$ 500,000$, and a hibrary of 10,006 volunes.
IowA-This State, one of the most recently settlou, exhibited very prominently her achool statistics, showing tine wonderfully rapid progress of educntion in the State. In 1850 thero wore only 869 schools in tho Stato ; in 1s60, 4,927, and in 1875, 9,610 . In 1850 there were only 928 teachers ; in 1870, 18,145. In 1800 there were 64,100 scholars; in $1875,533,000$. The expendi. ture for education in 1S50 was 371,219 : in 1875, $\$ 4,665,940$. The other oxhilits consisted almost entirely of work from the schogls.

Mrssourr. - The exhibit fifon this State was comparatively small, being confinel chicfly to the city of. St. Louis. The exhibit of the thirtecn Kindergartens in that city was highly interesting, Some very excellent work from the grammar schools was sbown, aud also photographe of school brildings, and Kindorgarten rooms.
Tennesses. - This Stato had her exhibit in the cast end of the South Gallery. The chief object of attention was a large and very finely exceuted painting of tho Jubilee Singers of Nashville. The painting was certainly good enough to merit a place in the Art Gallery. The exhibit from this State was largely composed of specimens of work from the negro schools.

Ruode Island. - The exhibit of this State wns largely made up of specimens of work done in the schools, five towns sending two hundred and twenty volumes of scholars' work. There were some very creditablo specimens of drawiog, and no less than eighteen volumes of map drawing. There was an album coutaining photographs of the faculty of Brown University and the class of 1876.

New Hasipsuire. -This Stato made a very good exhibit, though not as extensive as some of the others. It consisted, as usual, of volumes of scholars' work, slate work, and a few drawings. There was a handsome model of the Manchester grammar school building, and a map in relief of tho White Mountaing country.
Connecticut.-Yale College mado the most prominent display in this exhibit, showing no less than eleven huadreà volumes of work cither written or edited by papils o- professors of the College. A statue of Albraham Pierson, the first President of the College, stood in the centre of the room, and on the wall was hung a map showing the location of every school-houso in the State. There was a large amount of scholars' work, meluding some work by Chincse students.
New Jensey. -This State made a more complete exhibit of school work than auy other. There were altogetticr 433 volumes of wort on exhioition, containing 15,500 specimens of work done in the schools. Of the teachers of the State, nincty-six out of every hundred contributed specimens. Tho work was generally good, well classified, and calculated to give the impression that the New Jersey school system is ono of the bẹstịn the Union.

## The Olil Log Cottage School.

Gratesully Dedicated to B/y First and dost Respectal Teacher, 3fr. J. McIntyre.
© bY T. Hagas.
The old log cottage school houso, John, I think 1 seo it yot,
It's but a step from two cross roade Where you and I oft have mot;
The same board fonce encircles 'round; Tho bell-well wo had none-
But how wo guessed the time, dear John, By looking at the sun.

What anci us buys wo vont to school, To learn to read and write;
Filled with the luftiest notion then. And futare just as bright.
How proud we sat upon the bonch And plumed each word at will,
And spiling' 'round-why, John, I think Wo'ro in tho oid school still.

Just look, right there the blackboard is, The teacher's desk in frunt,
On either side we stood in class And read aud "trapp'd" quite blunt; But then these rere the good old days Ere style had stalk'd abroads
And neatly prudish pupils now Would call "our way" a frand.
And when we show'd an active mind, How pleased the teacher's look,
How like the morning's golden ray He smiled unon his book,
And spoke of what wo'd surely make, And of a fanse in store
For those who hal their lessons well And o'er their books would pore.
And then the sports we us'd to play Upon the old school green,
How very little like, dear John, The games that now are seen;
When with a group on either side Wo "hail'd" the ball with "over,"
That bounding down the old gray roof In sonse one's hands did hover.
Well, well, times chang'd, aud with it, Johs, Wo'vo crossd'd the path of youth, And manfully bearing each his part, Let's crown our lives in truth, That when the silvery locks of age Witl death droup round in dual, Our happiest thoughts may find a theme In the old log cottage school.

The following was the programmo prepared for the meeting of the Lennox and Addington Teachers' Association, held at Napance, on Satarday the 25th ult:-"A Lecture on School Law in in its Relation to Teaclers," by the President; "Theory aul Tractive oi syuare and Cule Root," Mr. Magev; "A Renling," Mrs lomeroy; "Analysis and Parsing," Mr. Sweet; "Chemical Eu-periments," Mr. Tilley. F. Burrows, President; Vm. Tilley, Sceretary.
Exeter pzys $\$ 1,500$ per annum in salaries to their school teachers, and $\$ 125$ to a caretaker. Brussels pays $\$ 1,500$ in salaries to their teachers.

## Ancient History.

QUESTIONS AND ANSWRRS, BY W. R. BIGG, ESQ., INSPECTOR OF PUBLIC SCAOOLS, BHOCKVILLE, ONT.
(Q.) 92. Namo the different battles fought between tho Persians and tho Greeks in the reign of Xerses (the Ahasuerns of Scripture.) Particulars and dates.
(A.) ENonidas, with 300 Spartans, withstood the Persians fo: threo days at Thermopyle, till a Greek, named Ephialtes, betrayed to the Persians a path acress the mountains, which enabled the Persians to attack the Grepks in tho rear. Leonidas and his little band, with other volunteers, who made up tho number to about 2,000 , were cut to pieces, B. C. 480. The Persians, hotrever, suffered a severe naval defeat at Salamis, by Themistoles, assisted by Aristides, B. C. 480.

Then followed the battles of Platrea and Mycale, B. C. 479. In the former, $300,000 \mathrm{men}$, commended by Mardonius, the Persion general, were routed by the Greeks under Pansanias and Aristides, and on the same day the remnant of the Persian flect that had ascaped at Salamis was utterly destroyed at Mycale, by the Greeks under feotychides, the Spartan King.
(Q.) 93. Name the Soven Wise Men of Greece, and also the the Weven Wonders of the World.
(A.) The Soven Wise Meu were-Solon, tholegislator; Thales, of Miletus; Bias, of Priene; Chilo, of Lacedomon ; Pittacus, of Mitylene; Clerbulus, of Rhodes ; and Periander, of Cormth. The number is sometimes increased by the addition of Anacharsis, the Scythian, and Espimenides, tho Cretan.

Tho Seven Wonders of the World were:-The Temple of Diann, at Ephesus, in Ionia; the Tomb of Mansolus, at Halicarnassus, in Caria; the Pyramids of Egypt, the Walls and Hanging Gardens of Babylon, the Labyrinth of Egypt, the Colossus of Rhodes, and the Statue of Jupiter Olympas at Athens, 75 fect high, sculptured by Phidias in ivory and gold. The Pharos, or watch-tower, built by Ptolemy Philadelphus, King of Egypt, is sometimes added to the list.
(Q) 94. What leader of the Alcmocouids is said to have instituted the process of Ostracism? Name.
(A.) Cleisthencs. His chicf opponents were Isagorus and Cleomenes, the Spantan King.
(Q.) 95. When wes Confucius born, and what philosopher was his contemporary?
(A.) About 550 B. C. His contemporary was Pythagoras.
(Q.) 96 . What prophet is connected with the close of the Old Testament history? Give the date. (A.) Malachi, B. C. 430.
(Q.) 97. Of what party amongst the Athenians was Pericles, the representative. Give the date of his admiaistration, describing its effect on the prosperity of Athens, and name who was his rival.
(A.) Pericies, (son of Nantippus, the conqueror of Mycale), was tho representative of the do 10 cratic faction, and his rival, Cimon, (son of Milth des), headed the aristocratic party.

The administration of Pericles dates from B. C. 460 to B.C. 429, during which time ho governed with kingly power. Abroad he was everywhero triumph. ant, particularly in the Samian war, B. C. 440, and Athens became Queen of the Sea. Tho arts and sciences, with commerce, mado sapid adrances; schools of philosophers and orators wers formed,
and olegance and perspiouity of expression becamo an onviable distinction. It is to the patronage of Pericles that Athens owes the glory of boing the country of literaturo and the arts.
(Q.) 98. Givo the particulars relativo to the cause, the ovents that onsued, and tho final results of the Peloponncsian war, and also the names of some celebrated warriors, philosophers, and statesmen, who flourished during that period.
(A.) The rivalry existing botween Athens and Sparta, coupled with the hostility between tho Ionian and Dorian races, the former favoring domocracy and tho latter aristacracy, broko out into a contest known as the Peloponnesian war. Tho immediate occasion of tho war was a conflict between Corinth and Corcyra, brought about by a revolt in the Epidamnus, the colony of both. Athens supported Cursyra in tho contest, and aiv the same time was involved in a war agninst Potidra, a Corinthian colony which she wished to sub. jugate, and which Sparta determined to protect. Tho cause of Sparta was embraced by all the Peloponnesians except the Argives, who remained noutral : boyond the lathmus sho was supported by Megasa, Phocis, Locris, Bocotia, \&c. Tho alhes of the Athenians were Chios, Icsbos, Plataa, Corcyra, Naupactus, Acarnania, Zacyuthos, \&c. Tho Spartan King, Archidamus, invaded Attica B. C. 4:11, while the Athenian flect ravaged the Peloponnesus, and Pericles devastated Ifegara. In tho second year of the war Potidua surrendored, and the third year was marked by the outbreak of tho llayne and tho death of Poricles. Tho fourth year was signalised by Lesbos revolting from Athens; but it was subjugated in tho following year, its chief city, Mytilene, being forced to surrender. In the same year Platora capitulated to the Spartane, who, by desire of the Thebans, butchered the surviving men, and made slaves of the women. The town was afterwards razed to the ground. In B. C. 425 the Spacteria was taken ly the Athenian Clenn, bat in the following year the Athenians wero defcated at Delium by Brasidas, the Spartan gencral. In B. C. 422 both Brasidas and Cleon were slain at Amphipolis, the victory remaining with the Spartans. After this followed the peace of Nicias, B. C. 421, which gave a temporary rest to the combatants; but the war was again revived by the ambition of Alciliades, a pupil of Socrates and a nephow of Pericles. In B. C. 418 the Spartans gained the battie of Mantinea against the Argives, Which at once restored the military glory of Sparts.
Then followed the fatal Athenian expedition to Sicily, under the command of Alcibiades, Nicias, and Lamachus: but the first having been accused of sacrilege, and fearing to obey the orders of :ecall, contrived to escapa to Sparta, and became tire enemy of his country. The flect and army of the Athenians were defeated at Syracuse by Hermocrates and Gylippus, and ultamately destroyed, 1 B. C. 413. Alcibiades was now recalled by his fickle cruatrymen, chicfly through the influence of Thrasy bulus, and the period of his second government was the most brilliant of the whole war, comprising the naval battles of Cynossema, Abydos, and Cyzicus, in the latter of whicn the Spartan commander, Mindarus, was slan, the army fled, and the entire flect became the prize of the Athenians, B. C. 410 . In the following ycar Chalcedon was compelled to surrender to Alcibiades, but ho ho was in turn defeated by Lysander at Ephesus, B. C. 407, and was driven into a second exile. In B. C. 406 tho Athenians gained tho battlo of Ar:
ginnsce, tho Spartan admiral, Callicratidas, being killed.
Lysandor having takon Lampsacos B. C. 405, shortly after surprised tho Athonian floet at Ligos Potamos and destroyed it; hothon invested A ${ }^{\text {thens }}$ by land and sea, when it was compelled to surren. der, B. C. 40t, on the following torms:- "That the fortifications should bo domolished; that all ships except 12 should bo delivered up; that all tho exiles of the oligarchical party ghoula bo recalled, that henceforth Athens and Sparta should havo tho same friends and the samo enemies; and lastly, that Athens should acknowledgo the supremacy of Sparta both by land and sea." Trus ended tho war which had lasted for 27 y cars; the government of Athens was entircly cliangeil, and all authority phaced in the haads of 30 Archons, known as the Thirty Tyrants. Besides thoso alrcally montionel must bo added the names of Eischylus, Sophocles, Euripides, Aristophancs, Thucydides, aud Sucrates, who flourished during the war.
(Q.) 99. What celobrated Athenian exilo succeeded in dufeating the Thirty Tyrants and restoring the old form of government, and by whom was he assisted? Givo the date.
(A.) Thrasybulus: ho was assisted by the Spartan King, Pansanias, who was jcelous of Lysander. B. C. 403 .
(Q) 100 . Givo the particulars of the battle of Cunaxa, and the subsequent events conuected therewith.
(A) On the death of Darius Nothus he was succeeded by his son Artaxerxes Muemon, B. C. 405; but his brother Cyrus plotted against him, and having obtained the assistance of $13,000 \mathrm{Greek}$ mercenaries commanded by Clearchus, attempted to dethrone Artaxerxcs. In conjunctiou with bisown army of 100,000 men under Arieus, they set out from Sardes, and were met at Cunasa by Artaxerxes with $1,200,000$ men. In the battle which en. sued Cyrus was slain in the moment of vaticry. Then commenced the retreat of the Greeks ic the 4 own country, B. C. 401, and Clearchus having fallen by treachery, the command devolved upon the celebrated Xenophon, whose history of the retreat of the 10,000 (the Anabosis) has immortalised this unexampled march.
(Q.) 101. What form of govcrament mas instituted at Rome after the expulsion of the Tarquins, and what changes were subsequently made?
(A.) A repuilican form of gorernment: the powe: of the Kings was transferred to two preators, afturwards consuls. The tirst prators were Jnnuus Brutus and Tarquinius Collatinus. The next change consisted in appointing Larcius the first Dictator, B. C. 498. Then the office of Tribuno was created, their number being increased from two to ten, the latter being known by the namo of Decemvirs.
(Q.) 102. What efforte were made to restore the Tarquins?
(A.) A conspiracy was formel, includng among its members the tro sons of Brutus, aud the Aquilis the nophews of Collatinus; but the plot beng ds. covered, they wero condenined to death. Tarquin', only remaining resource was arms, and assisted by the Veians he attacked the Romans, under tho command of Brutus and Valerius; but although Brutus was kilied, the Bomans were victorious. Subsoquently Tarquin prevailed upon Lars Por. senna, one of the Kings of Etruria, to espouse his cause; he overran the country, defeated the Romans, and marched directly to Rome and laid siege
to that city, whon, in spito of a bravo resibtance, particularly tho defence of the bridge by Horatiua Cocles, Porsenna reduced Romo. Tho battlo of Lake Regillus, B. C. 497, in Tusculum, destroyed all hopes of restoration, and Tarquin having outlived all his children, died at Cumo B. C. 494.
(4.) 103. Skotch brief historical notes on Coriolanas, Cincinnatus, and Camillus.
(A.) Concolanus, a patrician, who had distinguished lumself aganst the Volsci, and taken Soriol, their capital, whonce his surname, displayed great arroganco towards the plebauns, espectally when he jnassed that thoy should sell their right to have Tribunes, for a supply of corn in fanu:ne times. and he obstinately resisted tho right clamed by the Tribuucs of summoning patricians beforn the tribunal of the Commons. Being driven into exile B. C. 475, he found refuge at Antium, a Yolscinu town, and soon returued at the head of a Tolscian army to bestege Romet The tears of his mother Yetaria a araled more than the entreaties of the Senate or tho adjuration of the prests, and Conolauus was induced to draw of his army, remarking to his nothor, "Thou hast saved Rome, but lost thy son.". His subsequent fato is uncertain ; by some he is satd to have been slain by the Yolsciaus, whercas others represent him as naving lived among them to an advanced age.
Cincimatus. The disputes between the patricians and the plebelaus concerning the Agrarian Lays induced them onco more to havo recourse to a Dictator, and they dixed upon Quintus Cincinnatus, whom the deputies of the senate found holding the plough; Cincinnatus acceded reluctantly; to the Senate's ${ }^{\text {leasure, and having restored tranquillity }}$ he retred from otice, and again devoted himself to the pursuit of agriculture. He had not long retired when a fresh exagence of the State once more reqnired his assistance: the Aqui and Volsci had hemmer' in the Roman army, B. C. 456, in a defile between two mountuns, when the Senato again appointed him inctator, as the only person on whom Rome could phace her depeadence. Collecting an army, he soon relieved the consul Minutius, and rescued tbe homan army from destruction, after which he agan reslgned the Dictatorship, and once more retired to his farm, haviug declined all offers of emolument.
Camillus. The Verans had long been the rivals of Rome, and had taken the opportumity oflenternal distresses to ravage its territories. It was accordingly determined that Y eii should fall, and Furius Camillus. having been appointed Dictator, lad siege to Ve.i, which was taken after a protracted slege of ten years, B. C. 396 . He next defeated the Falisci, and besieged ar 1 took their capital, Falerii. He is also said to have cnused the rebuilding of the city of Rome after its almost total drstruction by the Gauls, under Corennns, 13. C. 390, in opposition to the proposal to remove the seat of government to Veii, and hence was called \& second Romalus. Ho dicd B. C. 355.
(Q.) 104. What event was mainly instramental in causing the aborition of the Decemvirate?
(A.) Tho murder of Dentatus, the Roman Achilles, and the brutal outrage of Appius Clandius in attempting to obtain possession of Virginis, whom her father stabbed to the heart rather than let her fall into his hands, brought on a revolution which resulted in the depasition of the Decemvire and the restoration of the Tribunes, B. C. 449.
(Q.) 105. When was the Peace of Antalcidas conclader, and what wero its provisions ?
(A.) In B. C. 387: its provisions were " that the Greok citics of Asia, and tho islands of Clazomeve and Cypris, should be subject to tho King of Persia, but that all other Greok towns should bo indepen. dent, axcept Iemnos, Imbros, and sycrus, which shonld bolong to tho Athenana
(Q) 106. Under what celobrated indivaduals dill Thebes riso to eminence? Give the particulars and dates of the battles of Leuctra and Mantinca.
(A.) C'nder Pelopidas and Ejamanondas. p'herbidas, a Spartan general, had Weized the Cadmen, B. C. 383, and put to death Ismenas, the popular leader, but 300 of the paty, includume l'elopadas, escaped. Subsequently the latter returned by night, and being joined by Charon, huerated the city, and expelled the fureagh garrison. Athens sent assistance to Thebers, and I'topedas, chetly with the aid of the fanuus sacreal Band, consisting of 300 chosen and well disciplmed Thebans, secured the supremacy of Theles in liwotia. Athens then deserted her ally, and Thetes maintained the struggle alone. In B. C. 371, the Spartan king, Cleombrotus, marched into Buotia, where the great battle of Lenctra wis fuught, in whach Cleombrotus was killed, and the Theban army, commanded by Pelopidas and Lipaminundas, gamed a brilinint victory. But the severest blow that Epaminondas inllicted on Sparta was in B. C. 369, when, having ravaged the l'cloponnesus, he restored the ind pendence of Mcsschia, and buitt Messene ais the foot of Ithome. The Thebans then invaded the Peloponnesus, but were unsuccessful in re. ducing Sparta. Some years later, Pelopudas fell at the battle of Cynoscephale, in Thessaly, in which the Thebans were wioriuus, B. C. 3iv, and Epaminondas lost his hife at the battle of Mantinca, B. C. 362, where the Thebans were again trionshant, but the porer of Sparta and Thebes were both broken.
(Q.) 107. Under whom did Macelon rise to eminence, and when; by what celebrated individual was he opposed; what battlo sealed the fate of ureeco? Date.
(A.) Under Philip II., B. C. 359. To streugthen Whis power he improved the lisciplane of his troops, and formed the celebrated lisalanx on the model of the Sacred Band of Thebes. He began by seizing Amphipolis and estahlisluyg the military station 3of Philippi; thon choosing atıme when the Atheniaus were embarrassed with a social war, which cost them the control of many islands, he interred in the Sacred War, B. C: 3.77, between Thebes and Phocis, which was brought to a conclusion after a struggle of ten years, principally by the interyention cf Philip, who was rewarded by a seat in the Amphictyonic C'ouncal. Demosthenes in vain warned his countrymen against the ambitious designs of Philyp, and exertmg his military talents in defence of his country, compelled Philip to raise the siege of Byzantium. The sudilen seizure of Elateia and Cytinion enabled the Greeks to sco his real object, and brought about an allianco between Athens and Thebes; but it was too late, though the Greeks were successiful in two battles, and Philip began to lespair, but in the autumn of B. C 338 the decisive battlo of Charoneis reas fought, when the Macedomans, commanded by Philip and his son Alexander, and the experienced Antipater, gainel a complete victory. While forming new projects for the conquest of Persia, at the head of the confclerated arny of Grcecc, Philip vas assassinated at $s$ Ega, by Pausanias, B. C. 336.
(Q.) 103. Sketch the carcer of Alexande, the Great.
(A.) At the age of $\mathbf{0 0}$ Aluander the (ireat sacreeled his father Philip. Tabing advantage of hes youth, the Illy rians, Triballians and other barbarmus tribes endeavoral to recuvir their independ, ince, but wero defeatul. Alcsander then fell smitirnly on Theles, whin had ruolted, and massacreit the Machlcuian garrasul, and organized an restensive revolution; the caphtal, Buotia, was takming assault, evcry house racel to the ground, the inhahitants put to the sword, and tho women mid chilhren sold into slas cry. Having thus eflectrally difeated every "presition, ho resulved to rarry ont the projects of his father by the invasien of Nsia. Leaving Intipater as regent in Maceinnia, he crossed tho Hellespunt with an army of $35,(10)$ men, and nivanced to the Grameus, IB. C. :34, where he defatud the Perstan army whinch lined the bauks of the streani, and who could not withstand the charge of the Yhalan,, led by Alexanler in person. dil Asia west of Mount Taurus, the rich provinces of llurga, I, idas and Carm, the great cities of Ephesus, Nardis and Miletas, wi re compelled to sulmit to his authority as ho advanced. The battle of lssus, B. C. 333, in which the Persian monarch, Darius Codomannus, commanded, soon followed, and terminated in the uttrer rout of the l'ersian host, Darius being compelled to flee, leaving his mother, wifo and children in the power of the victor. Syria, with its capital, Thmascus, Phenicia and Sidon were speedly subjugated, but the reluction of Tyre cost him a scren months' siege. He then reduced Gaza and passed into Egypt, which surrendered without a blow, and there founded the great sea-port of Alevantria, which soon lecame the capital of the country, the depot of seience, and the centre of the enmmerce of the Lastern World. He then procectel east ward to I'trsia, marched rapilly through Syria, crossed the Luplrates at Thapsacus, thenco through Mesopotamia, and thence struck down tho Tigris, reaching the plain of Gangamela (twenty miles from the town of Arbela), where he found himself confronted by 60,000 men under Darius. The result was the same as at Issus; tice first charge of the Macedonians could not be recovered, and after a lrief condict, the Persians were scattered, B. C. 331. From Arbela, the conqueror proceeded to Babylon and Susa (Shushan of Scripture), when the accumulated treasures of a long race of mnnarchs fell into his hands. Darius fled to Eebatana, and thence towards the Caucasus, actively pursueil ly Alexander, but before he could be overtaken he was murdered by Bessus, Satrap of Bactma, who was shortly after taken, scourged and mutilnted, 13. C. 330. In becoming the sovereign of Asia, Alexander aimed at permanency of domininn, and with this view assumed tho Median dress, marrice lioxana, a Persian lady of high rank, and in his internal pointy contemplated the prospenty of his new emprire. The fonndation of other Alexaddrias, stall surviving in Herat and ('andaha, followed, as the victor fought his way through Asia, past tho raspian to the Jaxartes. He then invaded Northern India, crossed the Indus at Attuck, pushed on to the Hydaspes, which he crossed, and defeated I'orus, 13. C. 32G. Havang conquered India as íar as the river Hyphasis, Acsander agam returmed to Susa, where Barcine, or Statira, tho beautinul daughter of Darius, became his wife. Procucding thence to Ecbatam, he offered magnificent sacrifices, followed by festive
garn ', in gratitudo for his long continued success. Ho th. $\eta$ roturned to Babylon, and wailo engaged in plans for improving his futuro capital and restoring the aucient Assyrian enypiro to $\mathrm{i}^{\mathrm{i}}$ 's fonnor gupremaoy, ho was saddenly attacked ly a fatal discase, of which he died, B. C. 323.
(Q) 109. Give tho particulars relatise to tho lst, 2nd and 3rd Punic Wars.
(A.) Tho Manertines, a mercenary boily of Italian soldiers, had taken forcible posscssiun of the city of Messana, B. C. 281. The Syracusans, under King Hiero, as well as the Carthaginians, attacked them, when tho Mamertincs solicited the assistance of Rorae, which was grauted B. C. 264, it being necessary to remove so powerful an enemy from the neighborhood of Magna Gracia, then recently conquered. The war ended after 23 years duration. The reduction of Agrigentum was the first great exploit of the Romans, B. C. 262; then followed the first naval battle of My la, B. C. 260 , in which the Consul Duillius defeated a nation lung the mistress of the sea. Scipio expelled the Carthaginians from Corsica, mhile lie ulus transferred tho war from Sicily to Africa, where he was ultimately defented and takien prisoner ly the superiur skill of Xantippus, a Spartan general who commanded the Carthaginians, B. C. $25 \overline{0}$. The war was then confined to Sicily, where, in B. C. 2 s 0 , the Cousnl Cacilius defeated the Carthaginians in a great battlo at Panormus. At length the liuman victory of Egusa reduced the Carthaginians to seek a peace, B. C. 241, which was grantel on conditions, "that they sbould ovacuate Sicily and the islands between it and Carthage, abstain from war against Hiero and his allics; rostore all Roman prisoners without ransom, and pay 2,300 in ten yearly instalments."
Tho templo of Janos was now shut for the first timo since the reign of Numa, B. C. 255, and in Sicily Rome made her first forcigu conquest.
It was in Spain that the cause of the 2ud Punic War arose. A Carthagivian kinglum had leen foudded there ly Hamilciar, father of the celebrated Hannibal; the latter having been clected to the command of tho army in Syain, pushed tho Carthaginian dominions up the Ebro, aud captured the city of Saguntum, an ally of Fiume, and in a short time completed the conquest of the peninsula. Rome then declared war, and Hanmbal. adupting the policy of the Rumans, resolveal upun a danng movement to carry the war into the heart of the enemy's country by a march from Spain into Italy. Turning the eastern point of the Pyrenees, he crossed the Rhone, marched up its salley to the island of the Allobroges, north of the Isere, ascended that river to the valley of Chambery, and climbed over the Alps by the pass of St. Bernard. The march took about four months, and cost him $83,000 \mathrm{men}$, B. C. 21 s . Oneo in Italy he lost no time; with 30,000 men he defeated the Consul Scipio at the Ticinas; ho next vanquished Sempronius at the Trebia, near Placentia, and in the spring of B. C. 217 ho passed into tho basin of the Arno, and ronted the Romans in a fog by "reedy Trasimene," the Boman commateder, the Consul C. Flaninius, being among the slain. A disaster worse than any yet undergone awaited the Roman arms; on the bloody field of Cannex, strewn with the golden rings of Roman knighthood, Hannibal won a signal victory, leaving 47,000 of the Romans dond on the field, B. C. 216 . Marcellus inflicted the first check on Hannibal, near Noh, and shortly after he lost Capua aud Tarentum B. C, 207. His
brothor Hasdrubal marching to his assistanco with 60,000 men was worsted and slam near tho Metnurus, and Haunibal, after lecopmg prossession of Thaly for 15 years, during which tmo nother monoy - ${ }^{3}$ assistance reached han from home, was recalled $t$, Carthago to nppose the armies of Scipio, as the latter having dricicn the Carthagman ammes out of Spain, had transferrel tho Seat of Wa. into Africa. The fote of Carthago "an sealed at Zama B.C. 202, and Hannibal was defented. Rigurous termb of feace were inposcil on the hampuished city; all hor fircign possessions wero th lo given up, her mum$t$ ns and ships of war to be surrenderci, a tribute If 10,000 taluints to be $p$ will in 50 years, and she "is boumd to cngage in hu nar without the consent of Rone. Sopiw returned in triumph and was henecfirth distinguished Ly the surmune of Africanas.
The 3rd Punic war origimated in faction: Cato the Consor infatuated by a blind hatrel of Carthage, which had rejected his pruffred medastivn between it and Masinissa, whe was contmually amncring the Carthaginia, and and ederoachung on their territory, and partly by fear of the growing ywer of Carthage, which hat to sume whent recovered ity former prosif erity during the 50 years that followed the cunclusion of the 2nd Pume war, fiuished every speech that he mado in tho semate with the worls "Carthage est delendu." The dis. putes with Masinissa wre made the prete.at fur hostilities, B. C. 149. The Carthaginians nado somo concessions, and when this was dune, Rome further demanded, that Carthage shoula be razed to the ground, and that the inhalitants should build a new city for thomselves in the interior. The Carthagimians resolved to perish rather than submit to such insolence.
During three years the devuted city held out, but at last Scipio Kmilianus gained eatranco within its walls, B. C. 14G, and for six days had to zonquer every inch of ground, and in the end the Cartha. ginians set firo to the city and persshed in the cuins. The city was iure than twenty miles 10 circu mfercnce, and contained more than 000,000 inbabitants. Its wealth may le estimated by the plua ler collectad y S Sipiu, amounting to $£ 1,500$,000 , he is aiso said to hatc suld 50,000 into slavery, who cscaped frons the carnage. It has been conjectured that Timbuctuvemay have been funaded by CarthagiLians who cunatel frum the conllagration. Carthage, as a Iuman province, became Lybia.
(0.) 110. State the two most important provisions in the Licinian Rogations, and when the different ofifices of government were thrown open to the plebeians.
(A.) In the yeas 376 B. C., Licinius Stolo and L. Sextius were chosen tribunes, and brought forwardaseries of Bills, known as the Licinian Ro. gations. After a contest of ten years, the Rogations became law, B. C. 367; the two most important provisions were, 1st, that Consuls shonld be elected as formerly, but that one of them should almays be a plebeian; 2nd, that no man should be allowed to occupy moro than 500 jagera of the public lands. Lucius Sextius Lateranus was the first pleovian Consul, and the commons having once made grod their claim to this high office, wero not long befo:o they participsted in the others. They were admitted to the Dictatorghip B. C. 359; the Censorship B. C. 351; the Pretorship B. C. 337, and to tho sacred functions of Pontaff and augur B. C. 300.

# Miss McCutcheon's Tronble in Making up her Register. 

## BY QUID RIDES.

Tho ill succoss which attendel Miss Morint cheon's atrunnous efforts to ampart to her pupils the rudiments of even olementary subjects sermu to have not yet lisporsed, but harasses her mind and goads her teador feelings. Miss MeCutrhern is nut subject to fits except when in a millinery shop, and the $n$ she openly acknowledges herself to wo tho most fitful persun extant. It was ant, how over, wo may adi, laboring under the domressinn of a bonnet fit Miss McCutcheon was the other morning, when the evel spurit that hauntel har gehool ucnt out, and, bringug bick three other spirits worse than itself, made the last state of har and the register worse than the first. There are a great namber of registers, the most commonly knumb leiug tho dummele register, which you can turn at will, but a heavy treighted school register will invariably tarn yuu at will.

After pausing over the surface of her wateb, Miss McCutcheun breathed mathematically upmo her pupils, and turming her thoughts and her eyes simultaneously upon t.se school manuseript, pro. ceeded to ald. It was a heavy record to practice on-abstract and concrete numbers, addition, subtraction, multipluation and division theoretically and practically illustrated before her in the mast extensive form. A heavy lead pencil adorned the ravino of her right ear, while a liank of Mnntreal pen at intervals filtered ink on her fingers, thereby betraying her neatness and despatch.
But sho clung on with a laudable tenacity to her work, discriminating the nines from the sixes, adding vigor to the work and tigures to the paper, carrying over carefully to an authorized corner of thit register each month's attendance, to iorm aftert wards one grand total to be struck by an average.
Neantime the sixty hearts that beat os ono hegan to appreciate the relasation which the srimol census had extended to them. They didn't talk. but laughed in choruses, shot spit-balls at right angles, and considered it very monotonous if me of their aumber faled to keep his feet beating time on the floor. Eh Perkins took the lead, and was just measuring the massiveness and density of a small monad of papes with the calibre of his mouth, when a gentle tap at the door smiothly tarned the attention of one hundred and twenty eyes toreards that point, whic Miss McCutrhenn, at the unbiassed suggestivn of Bill Fye, proceeded to open it. A slight calm ensued, and as the wonted aperture in the school disclosed the face of Jonathan Perkins, she politely s. lated him.
"Are you the schoolmisses here?" inquirod Perkins.
"Yes, sir," faltered Miss McCutcheon.
"I thought so," sail Pcrkins, as the took her dimensions by an obtuse look of the left eyo.
"Well," he continued, "you know Ned Perkins, my second son, has not been at school for a week back, and I can't account for it."

- "I can,", sajd Harvey Gurnet, with a mischevous smile on his face; "people generally go to Dr. Bole's for weak backs."
The joke was perceptible, and the school convulsed; Perhins literally grinned, but virtually was in no conjunctive mood for marth, and clevating his eyes around the room, descried Eli in a corner with a badly damaged eyc, a momento of a previous ovening's troublesome campaign.
"It's strange," resumed tho angry parent, with an ugly flash of his oyo, "that my boy can't bo allowed to go home unmolested. When I was a boy," he added, "the teacher would raw-hndo us for such a villainous aut as that." and ho pounted to Eli, who meanwhile was ilsplaying to its full advantage the uninjured vyo to che utter discredit of the other.
"Thes'ro a vory insuburdmato class of boys, Vr l'erkins," waid M,ss MLCutcheon; "I'mafrad they'll numhilito oxeh uther somo ovoning yet.
"Fli is a guale xample, now, Miss MeLutcheon." niged unt Fred Watkins, "ol the Passire Fonco. Im Wiburfore tuch hum for has subject, and then innnected himintu an object, consequently, Eli, the subject of tho Activo Vice, became tho object if the l'assive Voice.'
"Yousee, Mr. Perhins," rejoned Mass McCut-- henn, in a grave anal pruml sule. "these boys ire so rephete with ellucation that ther knowledgo will noze olit un wory gubision, be it tavorable or inoppot tunc."

The dignit, with which she marshalled thas last sentenco marshadlad l'erhins for has departure, and aitr liaving encluped has head in a heavy fur cap mil thonghtfally ramminal her ot ied, he bowed egregiously and departel.
"Four dad's a fine wh fellow, shonted Bull Vipe across the scats to Elt Ferkus, who sat meditating on the beauties of a black eye.

Put Miss McCuthheul was too antent on putting fingn nine amd carrymen ens to notice the grand remark just passed.

## A Suggestion.

To the Editor of the Companton and Teacher.
Mfir Sir, Alluw me to make a suggestion thrי $n_{0}$ h tho medium of your juurnal with a viow tw improving the methud of arranging the procramme for the amaual mecting of the Untario Pronncial Teachers' Assuciation. The suggestion is this -Let the secrutaries of the varions local assn iations throughout the Pruvince formand to me, at Newnarket, Lefure Christmas, a hast of subjects their associatiuns leem suitable fur discussion at the annual meetiar. I will lay them before the " Fiencral Executive" at their Christmas mecting, when the programme is arranged. With this as' sistance, the comnittee will be alle to present an improved programmo to the ciachers. Fuars truly, H. Dickerson,

Sec. P. S., Sce. O. A. A. E.
N"ermarket, Nov. 1st, 1S76
An interesting meeting of the Fanst Bruco Teachers' Association took place at Paisley on Friday and Saturday, 3rd and 4th ult., the Hon. Minister of Eitucatiou being present. On the ovening of the first day a public mectung was held in the Musie Hall, the mast prominent feature of whioh was the prexenting by the teachers of an address of weleome to the hom. Gentleman, and the delivering of a lengthy and deeply interesting reply, wherein he stated that:-
"No country in the world has made more mate rial progress than the Province of Ontario, and in no department has greater progress Leen made than that of cducation. In Ontario a more favourable condition of things was found than in England, Germany, Scotland or Switzerland. OUR HONE COMPANION

## Selected.

## "Teachers and the Art of Teaching."

Pmfesser Tremblay ilelivered a leturo un the above subject, in tho Y. M. C. A. Mall, Charluttetown, P. P. I. - Rev. Donfld McNeil, Secrutary of tho lmara if Elucation, in the chair. Tho audhence, though small, was select and appreciatice, soveral of tho city teachers leing amongst those present. Mr. Tremblay is yute a master of Euglish as well as French, and succeeded in keeping his nudicnco interented in his subject wutil the very close.
After stating his intention of sajomming for a timo i.a Charlottetima to teala the French lamguage, :and givimg expression to some appropriate compliments in retumn for the gonerous, kindly reception ho had met in this comitry, he wont on to say that he had alw.iss beclievel, amil still heleeved, that any conscientiens and lionest meanity man, seeking the patronafe of toe jubic, in whatever capacity it may be, has nu right whatever to sereen himself behind this one or that ono. Ho did nut believo in that kinh of work; it is umanly; it as ungentlemanly. Ho would rather see a nam come out at once in his true colors, and stant upon his orrn work, if he has any to shum, nul upon nothing else. And he further belioved that no teacher, however high or humble his pusition in society; no instructor of youth, however. wide or small his sphere of labor, should be afriid to come out before the light and allow himself and his work tole tested by tho sentiment of pubicic opinion. That was his view of the matter. The proud city teacher ; the unpretentious cuuntry schuolnaister; the humblo sohoolmistress, have each and every one of them a work of evangelization $t$ - perform, 80 to speak-that of leading to the mor 4 and civil virtues the youth confided to their care. Ho con. sidered that every tewher is ondowed with a real minictry as a clergyman. Such being the case, let no teacher then having the conscientiousness of his orrn dignity, be afraid to step up boldly to the front, to produce his work, and to stand by it; for it is an infallible fact that people will judge of the treo by its fruit. This is the best recommendation that a teacher can carry with him at any time. He meant to carry no other, nor did he covet the carrying of any other, however glossy and pompous the piece of parcliment may be.

Ho only wished that his fellow-workers in the honorable cause of Elucation would huist up the same flag; that all his fellow-teachers wuild unansmously stand by that same principle, and from the moment that banner is unfurled to the breeze, no school will any more be pointed at as a disyrace ; the standing of the teacher will at once be raised to its proper respectability, and the appellation of teacher shall no longer be, a name of which any man will have reason to be ashamed, as associated with incompetency and want of tact.

With due deference to his fellow teachers, and without wishing in any way to wound the feel, angs of any one, he said, at the outset, that when he spoke of teachere, he did not mean the host of beardless young men that he had seen, in less favored countries than possibly this little island is, turnal out by the score every year from colleges, aculemies and training schools with a piece of paper in their hand, to prey upon the pockets of thin illiterate, till a favorable opportunity would offer for them to shake
off an employment to which nacuro never intented they should ho called, and for which thoy nover meant to fit themsel ses in earruest. Those aro tho mon who are finum to bo tho stumbiing block in tho way of others; those are the men who, whine perpetually cumplamins of tho ungratofuluess of the calling, hase provel to be themselves tho great draw back to the cause of education, and a hanarance to the risung of the moral standang of the teacher. He dil nit wish to msintato that has remarhs ayplied miliscrimunately to all teachers, or that he placel them all on a level with , the class referrel the. Nu; he wuld make an honorable exceptivin to the reypectable phalmax of worthy, efficient, experictued and self-sacrificing teachers, many of whum aro to be foum in thas city, perhaps, as well as clsewhere. This is the class of men by whom he stuol, and in behalf of rom he spoke.
He s ail he was not an ohe man, but he hal seon a great leal of the wolli ; ho had travelled a good deal. He had been in cuntact with many teachers in his diys. He had watehed them closcly; ho had stuatieal them curefully, and from has own personal observations, as well as from having always had a leaning to the callung from his earlhest infancy, he had arrivel at these conclusions.- That the calling of the teacher is by all meansa most deserving onc, but unfurtumately it has sadly degenerated, and dres not seem to have kept pace with tho spirit of progress and civilization of the age. The teacher, nuw-a-days, after spending tho best part of his life in the service of society, is, when worn vut, relegated to oblision and forgetfulness. How many hall he known, how many flid he know, who hase lahnred earnestly, faithfully, dhagently, 20 , $25,30,40$ years in celucating the youth of their country, and who to-day, unable to work any Conger, wuuld havo a right to turn to their countrymen aud say, like Socrates.-"We deserve to be fed, clothed and providel for the remainder of our days, in return for the services which we have renderel to our cunntry." Anl yet, their country hnurs them not, and in their old age, where do we find those men? With a fow solitary exceptions, sitting on the threshold of indigence, unknown and unnoticed, and they will hikely go down to the grave unknown, and wiohout a lament. A similar fate lihely awaited him as it awaited many of his poor felluw-teachers. Let no ono be discouraged. They had stood their ground too long to desert their post on account of the ungratefulness of those whorn they hal served. If the country would not crect them a moniment, they would live in the menory of the unes whom they had benefted, and that itself was a sufficient reward.
But if teachers have to complain of the ungrate. fulness of the calling; if they are unappreciated as a body ; ill remunerated, and therefore deprived of a sucial position in the world, where did the fault lay? Let us go to the primary source and trace it out. He considered that teachung, like preaching, is a calling which no ono should enter unless he is called to 1 . Where then docs the trouble lay? He sud, in the teachers themselves. Too many 中ter the profession whoso services are only calculated to sink the calling into contempt, and reflect discredit upon the whole fratermity. It would be no great loss to the country if they retired into the shade. They would not be missed. For teacher, in the real acceptation of the word, they are not, never were, nor never will be.
Although struggling by times with difficulties,
and having to copo with humanu injustico, tho ginn, officient teacher will always surgo above the waves; sooner or later he will find his pmpor lovel. He knew teachers in thas city, ho know some in New Branspick, in Nova Scotia, in Ontario, who hand mado for themselves an honorablo competency: men highly spoken of, fully appreciated hy a discriminating public. To what do they owe their standing? To themselves; to their work which is still standugg, and to whel they are notashamed to pomt; for they carry with them tho conviction that it will stand the test of public opinion. And puble opinion has found it ous to be so. These aro tho men who aro a credit to the professim, whose names can bo hell up as a trophy. They owe their buccess, not so much to their learming, as to their vast expencuce, ant their expertness in conveying instruction to others.

## the art of teachiso.

There is a question of paranount importance which has, of late years, attracted the attention of lealing geniuses, both in Europe and in America ; and as it is a question of vital importanco, he often wondered that polsticians and men who had the lealership of public matruction, hat not given the natter more serious consuderation; that is, to find out the true line of demarcation between a man of learning, and a man capable of imparting hi arning to others, or more properly speaking, th. Hifference between an educated for, and a tearher capable of impartung his educ win to others. Well, ho found out, and he willingly gave the world the benefit of his dascovery, iree of charge.

Learning ${ }^{1 s}$ acquired by stuly; but the art of teaching is only secured by practice and experience. No ne would make him behove otherwise. They will tell us that there $2 s$ a recence called pedagogry, which ceaches the Art of Teaching. That is all nght enough; he knew something about that seience. But let the young student, just nut of a tranugg school, experiment on the art, and he will soon realize the awkwarduess of has position. He himself studied in college ; he took out his degrees, and (should he say itt, he carned off a respectahle pece of paper in the teeth of thirteen sorrow stricken, unsuccessful competitors. He immediately set to work to teach, or rather attempted to teach others all the tine thugs he had leamed. Oh' what a fool ho had made of himself! It was apparent to him that because he knew this, because he had studied that, there could be mo tmuble in teachung it to others but in this he was mistaken. There was a whle gap between him and his puphls anto whinch he cmuld not see. That was his want of aptitude ; his mability to impart what he knew to others. He had since leen through another school, that is, the school of experience; and if there he had not added much to his former stock of learning, he had secured what had sabsequently proved to bo of great benefit to him and others-the art of imparting mstruction. In the knowledge acquired at that school hes the seeret of all our successful teachers. Go to them, and they will tell you whether he was right or wrong.

But there is annther thing. The arsof teaching, the art of communicating one's ideas to othris, is a talent whinch is not given to everyone. Line music, poetry, and other fine arts, it may be cultivated, it may be improved, but it will never be in the man unless nature has imparted it to him. Learning will not impart faculties to a man, unless he has
been endowal with the samar,yhis Maker. Hammer nway as long as you will nt a piano, you will never bo a grod player unless thero is thes genius of music in you. And so with drawing, painting, puerry, langunges, and the art of teacling. When ho came out of colloge, soveral of hi4; fellow-students hat provionsly shaken off the luat of the schml, and had come out in the broad world, stuffed up to the throat with Iatin and Greck, and very proud of themselves because thoy had a string of lotters attached to their names. But blockheculs he knew them to be; bluck heals they have pmed themsclves to bo; and biockhends they will die-cime, as it rolled on, has not imparted brains to them.

Therefore, he would say to them, if you want to study nything, if you want your children properly and thoroughly educated, seek not tho man with a vast amount of erudition and of no experienco; trust not merely to parchment and ontwand appearancer. [But rather see, if among tho ernwd of teachers that claim your patronago, you can fint ono that combines buth ertidition and experience. Let his experience be the principal conshleration. Certainly leaming, and the more of it the better, is of some weight. But make yourse'res sure, by testing the work, and not merely arcorrling to what nthers choose to say about it. In cms, and this alnme, lies the certainty of your sucerss, and to a false interpretation of a teacher's merits may be attributel the failure, and the many desappointments of which you have had to complam of in the past.
To such of his fellow-teaciers as might be here tn-might, ho would ray befrere he closed.-Go on in ynur noble work of usefulness, regardiess of the thorus that you nccasimally find strewn over your path Happier than he, they had their work with them. Stand by it, and fear nothing. Is your $\mathrm{p}^{\text {msition }}$ what you would wish it to be! Rejoice, and thank Gor. Have you to contend with tho ingratiturle of your fellow-men? Be humble; bo pitient. The day will come when under the genial influence of the inth century, teachers will rise to their normal position in society. In expectation of that happy day, let us give sach other the frank acenlale and amicahle shaking of hands. Let not the weak envy the strong, nor the strong hate the weak. We are all engagel in a common cause, every one in his own sfihere-education and instruction.

Mr. Tremblay neat gave a lengthy account of his system if teaching Freich, whit seemed satisfactory and interestung to the andence. Tho chairman and uthers nanle some comulancutary remarks; a vote of thands was them manmously tendered to the learned lecturer, arter which the proceedings termmated.-New Era, Charlottetonn, N.B.

## The More Excellent Way.

It is always a very difficult question for the teacher to settle, "How far shall I help the pupil, and how far shall the pupil be required to help himseli?" The teaching of nature would seem to indicate that the riupil should bo taught mainly to depend on his own resources. This, too, I think is the teaching of common sense. Whatever is learned should be so thoroughly learned that the next and higher atep may be comparatively easy. And the teacher should zlways enquire, when ho is about to dismiss one subject, whether the class understand it sa well that thoy can go on to the
noxt. Ho may, ind of $A$. Dime...
ive a word of suggestip daring tho preparation of a lesson, and by a seasquablo hint snvo the scholar the needless loss of mulub timo. But it is a very great evil if the pupils acquire the habit of runaing to the toacher as scon as a slight difficulty presentsitself, to request in in to remove it. Some teachers, when this happens, will send the seholar to his seat with a reproof perhaps, while others, with a mistaken leinduess, will auswer the question or solve the problem themselves, as the shortest way to get mid of it. Both these currses are, in gencral, wrong. The inquirer should never be frowned upon; this may discoarage him He should nut be relesed from labor, is this will duminsh has self rehance without enlightening him; for whatever is done for a scholar without his havang studeed closely upon it himself, mahes but a $f$ telile aupression upon him, and is soon forgutten. The true may is, neither to discourage enquiry nor answer the ques. tion. Converse with the scholar a little as to the principles involved in the question; refer him to principles which he has befure learacu, or has now lost sight of; perhaps call hiz attention to some rale or explanation lieforo given to the class; go just so far as to enlighten lim a litte, and put him on the seent, then leave him to achieve the victory himself. There is a great satisfaction in discover ing a difficult thing for one's self, and the teacher does the scholar a lasting injury who takes this pleasure from him. The teacher should be sumply saggestive, but should never take the glory of a victory from the scholar by doing his work for hum, at least, not until he has given it a thorough trial himself.

The akill of the teacher, then, will be best manifested if he can contrive to awakeu such a spirit in the papil that he shall be very unwilling to be assisted; if ho cau kindle up such a zeal that the pupil will prefer to try agan and again before he will consent that the teacher shall interpose. shall never forget a class of boys, some fourteen or fiftecn years of age, who in the study of algebra had imbibed this spirit. A difficult question had been before the class a day or two, when I suggested giving them some assistance. "Not to-day, sir," was the spontancous exclamation of nearly every one. Nor shall I forget the expression that beamed from tho countenance of one of them, Then, elated with his success, be forgot the proprieties of the school and andibly exclamed, "Yve got it! Pve got it!" It was a great day for him; he felt, as ho never before had felt, his onnimight. Nor was it less gratifying to me to find that bis fellows wero still unwilling to know has method of solution. The next day a large number brought a solation of their own, each showing criucnce of origimality. A class that has once attained to a feeling like this will go on to educate themselves, when they shall have left the schicol and the hving teacher.
As to the communication of knowledge, aside from that immediately connected with school studies, there is a more excellent way than that of pouring it in by the process alscidy described. "Theory and Practicc of 'leaching," by David Pcrlins Page.

Hon. A. Crooks, Minister of Education in Ontario, says "Our school system should enable any jouth of talent, no matter how poor or humble, to reach the bighest intellectual and social position.',

## Parent and Teacher.

Had I children to send to school, I would lieep them at homo rathor than send them to a teacher whom I estecmed unworthy my fullest confidence, both morally and intellectually.

One reason why an antagonisin to teachers exists is that parents are naturally partial to their children, and are likely to consider thembrighter and better than their neighbors'. If, then, their children do not malie rapid progress in study, or if a neighbor's children outstrip their own, the teacher is at once pronounced wanting in zeal or okill, or else partial to said neighbor's children, when the fault hes wholly in the child's want of capacity or disposition to sturly. No teacher can supply brains or energy or order-he can only aid in the develupment of such talents as nature has bestowed.

Agan, injustice is often done to teachers by parents letamag their children at home for the most trifing causes, so that, missing half the recitations or more, thov are of necessity deprived of requisite discipline, $l$ zone drags upon the class, and lose interest in study, because $t$ 'rey meet with insuperablo difficulties; and yet the teacher is censured because the children do not like their school, because they cannot understand his instractions, and because they do not make rapid progress in their studes.

Finally, the antagonism somecimes exists becanse parcents, from a want of experience, cannot apprehend the difficulties of the teacher's position, or the exhausting characters of his lalors. They can know nothing of the mental ansiety and thoughtful solicitude that exerciso his mind day and night. Feeling that parents habitually underrate his lahors, the teacher naturally becomes hardened against them; for nothing moro keenly tonches an earnest man's sensibilatios than to have his work under-estimated. That such an naderestimato of his difficulties and labors is prevalent, is painfolly patent to every thoughtful observer. I have frequently been told that teachers have a very easy time of it; that no other class of workers devote so little time and labor to their occupation; that none engage in teaching but those who are too lazy to work. Such things have been said to mo by a mother. Who in the next breath would declare that the noise and trouble caused by her littie family of five or six children was nearly worrying her to death. At the strre or office I would probably be told the same thing by the pater familias, Who had skulked off from lome in the evening to avond the trouble of managing his "littlo responsilnhtics." The bare idea of increasing their family to the number of from thirty to serenty would strike this father and mother with consternat:on. A sudden and uncxpectel clap of thander could pert more amaze and startle them. Fet the carc and government of snch a family is but part of the task they deem so easy for the teacher.

There is somothing peculiarly exhaustivg about taking charge of classes and riving instruction. Why this is so is, as yct, unexplnined. Perhaps, when the philosophy of animal magnetism comes to bo fally understood, tho oxplanation will bo found to liefin the fact that the very vitality of the teacher passes from him, as nerre forec, and becomes stimulas, porrex, potential energy in the pupils before him. Preachera, after delivering two or three sermons on Sandays, complam of "hlie Mondays;" but tho true teacher performs riork equally cxhansting six hours per day, and fiverdays
per week. It has passed into proverb that
"teachers seldom grow old"-they die too soon.
Could parents justly apprehond the difficulties of
the teacher's position, all unmity would be over-
come by charity, charity woukd melt into pity, pity
would grow into sympathy, and sympathy would
devolop profound respect.-Pa. School Journal.

Much has been dono during the last few years towards elevating the profession of the pubhe school teacher. The standard of qualificatiou has been raised, and with it the remuncration for has services has in some snall degree.improved, althongh in too ma ly instances it is yet a pittance. But it is to be regretted that no radical change has taken place in the way in which tho public school teacher in the majority of rural districts is paid. It may not be gencally known that it is the usual practice to pay the teacher no part of his salary until the close of the year, with the exception of the Gov.rament grants apportioned to cach school. The salary itself is small, but how the teacher 18 expected to live during the year without a littlo money is rather a startling problem. That this stato of affairs is a grievance requires but very littlo intolligence to comprehend it. Mechanics and other laborers find it necessary to have their earnings paid up every week, but the necessities of the teachers are thought to bo maintaned by a good character and a labor of love True, it may be, the expenses of living in the country are not so great as in the town oz city; yet the circumstances of a tescher must often be very homiliaturg and he mast bo debarred many privileges which Fould be of sdrantage to him in his work.
An improvement in this particular must very soon be effected, if any encouragement is to bo held on " to teachors to continue in tho profession. As it is, it takes but two or three ycars to disgust the most aspiring and sensitive with the work, and they seek something more congeninl to their tastus. Tho remedy is not difficult, aud rests with the various boards of tresteces throughout tho country. And now is the time when an improvement can be made for the next year, when the sci...ol rates are to Le levied and collected. Each school section should levy in addition to the amount reqaired for this ycar, a sum to pay at least the first quarter's salary oi tho next year. The governuent grants might probably equal anuther quarter's payment, and for the third , uarter a three months interest would be but a mere trifle to tho section; the foarth guarter would come with the general levy for the year All it wants is a little consuderation on the part of the people, and we are satistice that Oxford will be ready to lead in a good example to the rest of the country. That erery teacher in the conntry shoold be paid at least overy three montlis is a demand that is justly claimed, and anuch good will result to the sciools by such a sy:iem.-Inger-
soll Chronicle.

## Sitnations and Permanence.

Teachers are, as a body, young persons. They often lack the misdom of experience.
A fow of the lessons of common experience touch points of grave importance for them. For example, a teacher washes a better sttuation. Perhaps he is really worthy of it. Let him seek it in all honor-
able ways ; but we say to him, Until you have socured it, hold on to the situation you have. Mind the sailor's adage, "never let go one rope till you havo hold of another." This is the soundest wisdom. Hold on to your place, and you are keeping up your practice ; you are giving an opportumty for your work to speald in your favor, you are saving both time and money ; you are showng a certain steadiness and patience which are in your favor. In fact, a quiet and faithful holding on to your situation till you have secured another, is one of the best recommendations to the other. Pursue the opposite course, and the yery fact that you ars out of a place has a look against you. It is a thang to be explained. The worlh is apt to think that the man out of place did nut prove acceptable in place. Hold on, then. Any thus is a better toothold than nothing. Something is the best foothold for something better.
Age in, if you have anything approachiny a pormanence, do not let go of it, save for an ctssured pennanence, or upon sheer compulsiun. Once lot go, it rarcly comes again. Many things are against it. To have let it go, except on the first condition named, argues to the world cither a discontented nature or an impracticalle one. This as a dangerous obstacle in the way of a permanent re-establishment. Moreover, long continuance in any position, begets habitudes of thwught and action, that are generally alive to the wants of the new ones. Unless the latter is professiunally akins te the former, or is in its emoluments su much butter, thay that consideration prevails, you will be disappointed and discontented, aud will seek relief in another change. With this begins drift. Such a couclusion is unhappy. A stable pusitivn after an opening career of driting, is a promise of better thiubs; but such a course of drittirs, after a pervid of successfal stability, is an augury of either demoralization or decay. Hence, if you have a permanence, hold it fast and make il as good as you can. The world is full of inatances of melanchuly struggle to gain a permanency, lost furever, because abandoned once. -"School Bulletin," Wisconsin.

## Teachers Visiting the Pcople.

The peoplo like the friendly opportune vists of therr teachers and preachers. They have an intaitive respect for high social conditions and mitellectual attannments in others, although their circumstance, paternal neglect, or personal indifferenco lrevents them frum pussessing these thungs themselves It is a rest and recreation after talkung all day to heedless chaldren, to converse at evenings with the parents ; it relieves us of that everlasting sameness that makes teachang rrksome. Some will not visit because it is nut a prescribed doty; but it is every man's duty to relieve himself, and no ono can tach long without needing relief. Fricudship is the main thing in a rist ; but I would not say stay away for want of it : go without 1t, and acquantance will make it.
"We dislike some people because ro do not know them, and we shall never know them becanso wo dislike them." This ancient adage proves that we chauge slowly for the better. If, then, wo would have friendship, we must employ tho moans, viz- visit. It is ncedless to await a cordal invitation, for there is sometanes more real welcome in raral sileuce than there is in city invitation Give mo the rough, hard grip of tho hand of indnetry rather than the silken glove of shelly etiquette. Friend-
ship is an effect; acquaintance is its cause; and the offect can nover precedo the cause. Although wo aro gregarious, yot we are selfish creatures, and considerable self-denial, and something very closely akin to dissimulation, are at times needed to keop away a separation. Tho final interview is apt to bo the severest on our speech, gait and garments ; but to inspection wo oppose circumstances.

We must remember that afte: all wo are only theory inen; farmers and mechanics aro practical men, and therefore their opinions are important. Nor should we forget, that in order to have our own opinions respected, we must show deference for the orinions of others. We cannot show thio school. master in correcting the errors or mistakes in the parents as we would in their children, but rather let them pass till their correction is clearly solicited. A teacher should be a kind of living cyclopedia, re. liable, and modorately ready to afford solicited information. He should study the children of the parents whom he means to visit, that he may be able to auswer thoughtfully those questions which are commonly asked about their progress in school. One of the commonest and one of the worst replies a man can inake, is one of those supine "Oh, firstrates." If wi would have our opinion respected, we must not be araid to tell sensible people what they already know is true.

## Claims to the Discovery of America.

Probably no archeological mystery is enshrouded with more intercst and a greater charm than the discovery of the Wastern Continent. Thus fact is attested by tho devotion and zeal of a galaxy of menjof genius, suchas Humboldt, Kingsborongh, Stephens, Rafn, and well-nigh a score of others. The rarions theories for the solntion of this!perplexing problem, many of them ingeniously spon, are too numerous for mention here. Only the principal claims to the discovery and colonization can receivo attention. Ancient America, with its noble monuments of a once grand civilization, is to us a land of darkness, and its history one of uncertainty. In our enquiries, fact must, in a measure, bo exchanged for conjecture. Very scanty are the recoras that come down to us from the ancients concerning their knowleago of the Atlantic, and the islands hidden in its bosom, though those indomitabls eailors, the Phonicians, had passed tho pillars of Hercules and established colonies on the westorn coast of Africa, in the ninth century before Christ. Threo hundred Fears later (B. C. 576), according to Herodotus. Pharoah Necho fitted out an expedition, manned bs Phenician sailors, and sent it around the entire coast of Africa. That the Canary Islands wero discorered and coloniz. 1 by the Phenicians, there is no doubt Strabo, speaking of the Islands of the Blessed, or Fortunate Isles, 23 they were afterwands called, adds, "That those who pointed out those things wero the Phenicians, who before the timo of Homer lad possession of the best part of Arrica and Spain." It is a well knoven fact that these hardy adrenturers of the seas were in the habit of preserving with the strictest secrecy the names and lacation of the distant lands with which they engaged in commerce. Where they sailed and traded, other than in the ports of the Indies and of the British Islea, must remain unknomn. Whether furnished by this nation of sailors or not, tho ancients seemed to have had some remarkiable information concerning an island
or continent hiddon in tho Sea of Darkness, as the Atlantic pas called. The first mention of this is mado by Theorionpous, a celebrated Greck orator and historian, "oho flourished in the time of Alexander the Greai. Eis description of this distant island, of great dimensions, and inbsbited by a strango people, is preserved in Elian's "Varim Eistoria," written during the reign of Alexander Soverus.-The Galaxy.

## The Student and the Teacher.

"He is well liked by his students, and you would have me believe that this is the only important requirement to the success of his administration," remarked a gentleman to whom we were describing the success and grosperity of a distingrished teacher not long since.
"Yes, sir," was our answer, "he is well liked by his stadents, and however lightly you may regard this fact, we would have jou to understand that next to the learning of a professor comes his ability and disposition to gain the good will of his students."
The modern professor who ignores the wishes of his stadents and haughtily refuses to respect either their opinions or their feelings, is the professor who is gradually losing his grasp on his position. The older heads now frequently ask their sons and daughters how they like their teachers, and ou the answer depends considerable. We do not intend by this to convey tho idea that a teacher or professor must lose his firmness, his dignity, or his courage to conduct his school in accordance with his ideas, but we do hold that he should in a certain degree respect the wishes and sentiments of his students. This may call to mind the case of the boy who quit school because his teacher was "too sassy," snd we would not be surprised if some superannuated pedagogue should tell us tartly that students are sent to school to obey and learn, not to command. This is true; we woald not expect a student to exercise any such power, but students collectively can exert a powerial influcace over the ones who do command, andlany teacher or professor who underrates this power of students certainly makes a miscalcu-lation.-" High School" Omalıa.

## Fanits.

He who boasts of being perfect, says a modern writer, is perfect in his folly. I have been a grat deal up and down in the world, and I never did see either a perfect horse or a perfect man, and I nover shall until I see two Sundays come together. You camnot get white flour out of a conl sack, nor perfection out of human mature; lie who looks for it had better look for sugar in tho sea. The old siyying is, "lifcless, faultless." Of dead men wo should say nothing but good; but as for the living, they aro all tarred more or less with the black brush, and half an eyo can see it. Efery head has a soft place in it, and every heart has its black drops. Every roso has its prickles, and every day its night. Even the sun shows spots, and the skies are darkened with clouds. Nobody is 80 wise but he has folly enough to stock a stall at Vanity Fair. Where I could not see the fool's cap, I have, nerertheless, hard the bells jingle. as there is no sunshine without shadows, so allhuman gool is mixal up with more or less of evil; cren poor-law guardians have their little failings, and
parish bedales are not wholly of a heavenly nature. The best wine has ats lees. All men s faults are not written on their foreheads, and it is quite as well they are nut, or hats would neod wide brims: yet as suro as eggs are eggs, faults of sume kind nestle in overy man's bosom. There's no telling when a man's faults whl show themselves, fur hares pop out of a ditch just when you are not looking for them. A horso that is weak in the knees may not stumble for a mile or two, but it is in him ; and the rider had better hold ham up well.

The tabby cat is not lapping milk just now, but leavo the dairy door open and we will see if sle is not as had a thief as the kitten. There's fire in the flint, cool as it looks; wait till the stecls get a knock at it, and you will see. Everybody can read that riddle; but it is not overybody that will remember to keep his gunpowder out of the way of the candle.-Proof-Shect.

## Attumn Leaves.

The waving golden grain I of have scen,
And oftener still admired the vernal green;
But who that loves green tields or golden sheaves, Is not enraptured quite with autumn leaves?
Wild flowers of spring. with cups of azure blue,
And violets I hail with pleasure, too;
And pinks and roses of the summer time, And tlowers exotic from each foreign clime.
But when the garden flowers have mostly fled, And stems are bare and leaves are sear and dead, God breathes on nature with a frosted breath, And robes the verdure for its coming death. What gorgeous vestments ! never since its birth So grand as when returning back to earth; Thould seem as if by magic wand or worl A rainbor's tints to leaves had been transferred; And every leaf, while bathed in morning derr, Had deeply drank of its own chusen hue; And all the hillside circling round the glade, In queenly robes of choicest tints arrayed.
The lowly sumschs fringe the grassy plain
With robe of purple; next a darker stainSA brownish gray-the hazel's sober suit, SAnd then the maple, higher in repate, With many colors, like a robe of old,
In parple, pink, and red, and green, and gold. Next, poplar, yellow-seeming half undressed, \& As if impatient for its winter's rest; And pines and balsams, with their changeless green, Like staid old matrons, here and there were seen, Silent reminders in this changeful clime Of things outlasting all tho blasts of time. A sceno uncuualled, where no frosts descend, And verdare fades, but never has an end. This moral nature deigning to unfold : When frosts of time come as ve're growing old, Wre should array us in our best attire, Lilie leares of autumn just ero they expire; in spotless garments, purged from siuful stain, In hope that dying ree shall rise againTo bloom immortal, cheristed beyond price, Transplanted safe in God's own paradise.
J. F. Latimer.
-Ontario Fret-3fason.

The teaching stair of Ontario is about 5,000 .
About $\$ 3,000,000$ are spent annually on our schoole in Ontario Province. Do we get good return for our moncy?

## Mathematical Department.

Sayiel R. Broirs, Editon, bot of D, London.

Trachers and etheis are enoufed to formard any jubleme thi" may think tewthy uf a place i:! those columns, trorived alerays that the sorutwns accompany the problenis. Send Solutions bofore $151 /$, 10 receive attent:on.

## Solutions.

No. 21,-


Iat $A$ be the station from which the two engines start. In six huurs ulu engne arrives at $B$ and the $\cdot$ ther at $C$; then $B C$ is the distance they are apart. $A B=120$ miles; $A C=210$ miles. From $C^{\prime}$ draw the perpendicular $C D$ to $B A$ produced. The angle $D A C$ is half a right-angle, therefore the angle $D C A$ is half a right angle ; hence $A D=D C$.
$A D$ or $D C=\sqrt{\frac{A C^{2}}{2}}=\sqrt{22050}$.
$B C^{2} \cdot B D^{2}+C D^{2}=A D^{2}+A B^{2}+2 A D . A B+C D^{2}$
$\therefore B C^{2}-14400 \div 44100+240 \Gamma \times 2050$
$\because B C=1 \overline{5500+240 ~} \frac{250}{20}=306.8$ miles
No. 22.-
Perform the multiplication indicated, and then add the threo equations together, and divide their sum by 2.


No. 23.-
Let $M$ and $m$ le the bodies, and $V$ and $v$ their respective rolocities, and vol the velocity of the united mass after impact:-

Then $(M+m) \times v c h-1 S \times V —-m \times v$, and henco rel- $\frac{M \times V=m \times v}{M+m} M-130, m=S 5, V-50, v=00$ $r i=\frac{(130 \times 50)-(55 \times 90)}{130+55}-53 \frac{5}{5}$ fect par sccond. $(130+S 5) \times 515=1150$ momentum after impact; and since $55 \times 90$, the momentum of the body moving to the west is greater than $130 \times 50$, the momentum of the body moving to the east, the united mass moves to the west.

No. 24.-By J. G. Hands, Jones' Commercial College, London, Ont.

Let $x=$ the number,
$y=$ one of the parts,

$$
\begin{aligned}
& \text { Then } x-y=\text { the other part. } \\
& \begin{aligned}
y^{2}+(x-y) & =(x-y)^{2}+y \\
y^{2}+x-y & =x^{2}-9 x y+y^{2} \times y \\
x-2 y & =x^{2}-2 x y=x(x-2 y) \\
\therefore x & =1 .
\end{aligned}
\end{aligned}
$$

No. 25.-By John Anderson, Soveru Bridgc, Ont. Iet $x=$ no. of a pieces, and $y:=$ no. of $b$ pleces. Then $x+y=c$, ( 1 )
From ec. (1) $y=c-x$, and $\frac{x}{a}+\frac{\ddot{\theta}}{b}=1$, or $b x+$ $a y=a b$.
By substitution, $b x+a(c-x)=a b \cdot \therefore b x+a c+a x$ $=a b$, or $a x-b x=a c-a b . \therefore x=\frac{a(c-b)}{a-b}$; now, by substituting the value of $x$ in cq. (1) we get $b(c-y)$ $+a y=a b$, or $b c-b y+a y=a b, y(a-b)=a b-b c$ $\therefore y=\frac{b(a-c)}{a-b}$

Cormect solutroxs have been received as fol-Iows:-
Nos 17, 18, 19, John R. Brown, Sylvau, Ont.
Nos 17, 19, - Naunird, Elinville, Ont (These two should have appeared in Norember No.)
No. 23,-Thos. Hammond, Selkirk, Ont.
Nos. 21, 22, 24, 25, James Mullar, Grimsby, Ont. Alex. Dickie, Tomuto, Ont.
Nos. 21, 23, J. F. Aitken, Warwick, Ontw; Miss M. K., London, Ont.

21, 22, 25, Thomas Worien, Cromarty, Ont.
Nos. 22, $23,24,2 \overline{5}$, A. B., Mlanghard, Ont ; J. Ferguson, Lobo, Ont.; Frauk Hausel, Smithrille, Ont

Nos. 21, 22, 23, 24, 25, John Anderson, Severn Bridge, Ont.; J. G. H., Jomes' Commercial College, London, Ont.; W. O., London, Ont. X. Y. Z, Lacan, Ont.; Johu Johnston, Wanstead, Ont; James W. Morgan, St Helens, Ont. ; Thristram Chishtt, Walkerton, Ont; Wm. Johuston, Watford: Duncan McEachren, Ashgrove.

No. 2l, G. IV. Mariott, Jura, Ont
Nos. $21,23,24,2 \overline{5}, \mathrm{R}$ M. White, Northport, Ont; Theophilus Hall, Markdale.

No. 25, M. M. Pascoe, Bowmanville, Out.
No. 22, R. Acton, Ashton, Ont.
Nos. 23, 24, 25, A. S. MeGregor, Avonbank, Ont.

Notr--Teachers in sending solutions will plase send each month's prollems separately.

## No. 26.-

A man bought a borse, a buggy and hamess; the harness cost $\$ 2 \mathrm{i}$, the bugoy cost as much as the harness +8 of the cost of the borse, and the borse cost as much as the buggy and harness both What was the cost of all? By arihmetic.

## No. 27.-

## Problems.

A farmer bought two flocks of sheep; the first at S4 each, and the second, which contamed 20 more than the first, at $\$ 6$ each. If he soll them all at $\$ 5 \ddagger$ each, and ganed $\$ 30$ on the whole transaction, how many sheep were in ench flock? By arithmetic.

No. 2S.-

$$
x^{3}=\sqrt{x^{2}-1}+\sqrt{x^{6}-1} . \text { Find } x
$$

No. 29.-
To what depth may an empty closed glass ves. sel, just capable of sustrining a preasure of 170 Hs to the square inch, bo sunk in water before it breaks?
No. 30.-

$A B C$ and $D B E$ are right-angled triangles; $A B=40, B E=50$, and $D C=30$. Find $B D$ and $B C$.

No. 31.-
A farmer has two square fields, a side of ono oi which is 10 rods longer than a side of the other, and the area of the latter is is of that of the former. Find the side of each.

## No. 32.

A municipality borrows for improvements $\$ 1500$, to be paid back with interest at five per cent per annum, in ten equal anmal instalments. How much must be paid at the end of each year, so that the debt may be cancelled in the ten years?

No. 33.-
Given $\left\{\begin{array}{l}y^{2}-432=12 x y^{2} \\ y^{2}-12+2 x y\end{array}\right\} \begin{aligned} & \text { To find the values } x \text { and } y .\end{aligned}$
No. 34-
A person bought a number of apples and pears, amounting together to 50 . Now, the apples cost twice as much as the pears; but had he bought as many apples as he did pears, and as many pears as he dad apples, his apples would have cost 10 cents, and his pears 45 cents. How many did he buy of each?

## No. 35.-

$x^{6}+a x^{3}+b x^{2} \div a m x+m^{2}-0$. Find the valueg of $x$.
[Nos. 26, 27, 28, 29 and 30 of the above problems appeared in the November No. of the Cosypision, and the solutions will appear in our next issue. The solutions of Nos. 31, 32, 33, 34 and 35 will be given in the January No. The names of those who solve the several problems correetly will be published with the solutions thereof. - En.]

## Curiosities of Wathematics.

Card players who are continually bewailing their ill luck of always receiving the same poor cards mall, perhaps, be assured by knowing that the fifty-two cards, with thirteen to each of the fonr players, can be distributed in $53,644,737,756$,$488,792,539,237,440,000$ different ways, so that there would still be a good stock of combinations to draw from even if a man from Adam's time had devoted himself to no other occupation than that of playing at cards.
When Ling Stanislaus of Poland, then a youns man, came back from a journey, the wholo Lescin-
kian House gathered togother at Lissa to reccive am．The master of the school，Jablowsky，pre－ pared a school festival in commemoration of the toyous event，and had it end with a billet performed by 14 students，dressed as young cava－ fiers．Each had a shield，upon which one of the －ctters of the words＂Domus Lescinia＂（＇The Les－ Kinskian House）was written in gold．After the合rst dancs they stood in such a manner that their shields read＂Domus Lescinio；＂after the secomd dance they changd the order，making it read ＊Ades inculumnus，＂（Unharmed art thou here！） ＂after tho thind，＂Irane sillus lori，＂（Continue to be \＆star for the country）；after the fourth，＂Sis onlumua Dei，＂（Be a pillar of God）；and finally， FII semule sotium！＂（Go，and ascend thy throne！） hpdeed these two words allow of $1,550,755,200$ tanspositions，yet that four of them contain inde． Findent meamngs is certamly very curious．
If Ifnecentwasset out at compound interest in the far 1，at four per cent．，on the first of January， 860，it rould amount to 1 quintillion， 201,458 padrillions， 332,000 trillions of dollars．If we ere to take this sum as a capital，and rould use $y$ tarly interest（four per eant．），then the in－ ne tax we should have to jay at the rate of one cent．would be $4 S 0$ quadrillions， 583,320 tril－ as of dollars．If we pard the tax collector this m in silrer be would need $3,003,645.000,000$ ，－ $0,000,000$ wagons for its transportation．Pro－ led the whole carth＇s surface，both land and ter，were peopled as clusely as possible，we puld have but 1－2，000，000 part of the drivers uired，and the line of wagons wculd have the gth of 8 trillions， 442,000 billions of miles．
The speed of light，as m ．ntioned，is 192,000 es per second，and it rould take 743，600 years reach the collector，begmuing at the furthest gon，if he，to have better control over the gons on both sides，stationed himself in the tre of the line．Again，a robbery could be mitted on the hindermost wagon which would be discovered till the 24,780 generation of tax ectors．If，on the contrary，instead of using interest of the capital－the bulk of which，by－ bye，in gold，would be equal to 44 globes－ capital were distributed among the people the eartb，each one of its $1,000.000,000$ of nhabi－ ts would receive about 1,200 trilhons of dollars Fire on，and could every second ase $\$ 2,000,000$ （3S，096，000 years without reaching the bottom his purse．
密

## To tell the Day of the Weck．

Ir．GilmourC．George，of San Rafnel，Cal，sends San Francisco Call a method of telling the day the week any given day of the month fell，or falls in this or the last century．We have tested it numerous instauces，in each of which it proves fallible．Mr．George says ：
In submit the followng mode by which any person in tell the day of the week for the last and present htury，for the information of gour numerous ailers．I will take up as little space as possible， dd perhaps you can still curtal it：

## centenimal ratios．

For 1700 ，the ratio is 2 ；for 1800 ，the ratio is 0. monthly ritios．
Finst month is 3 ；secoud month is 6 ；thind month 6 ：fourth month is 2 ；fifth month is 4 ；sixth
month is 0 ；seveu month is 2 ；eighth month is 5 ； ninth month 191 ；tenth month is 3 ；eleventh 1 month is 6 ；twelfth month is 1 ．

In Leap Year，the ratio in January is 2 ；and in February 5 ；the other months reman the same．

Explasarlos．－To the given year add its fourth part，rejecting fractions；to this add the day of the month，the ratio of the century，and the ratio of the month ；clavile the sum total by 7 ，sul the re－ mamder is the day of the week－counting rumday 1，Monday－，ete．Of course，Satu Lay bemg the serenth day the remaimder will be a eppher．

## ENTMPLE．

What day of the week was July tih，1776？
Tu the given year，which $1:$
Adel its fourth purt，rejectug fractions．．．．．．．．．．．．．．． 18
Add day of the month．．.... ．．．．．．．．．．．．．．．．． 4
Add ratio of the century．．．．．．．．．．．．．．．．．．．．．．．．．．． 2
Add ratio of month． 2

Divide by 7．．．．．．．．．．．．．．．．．．．．．．．．． 103
145
We have $\overline{0}$ rumainder，or tifth day of the week－ Thursday．

## Estimating dmount of Land in Fields．

＇To ain farmers in arriving at accuracy in estıma－ ing the amount of lanel in differeut fields under cultwati n ，the following table is given：－

| 5 | yards | wile | by | 965 | long． | contain | one | acre． |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | ＊ | 4 | 4 | 4S4 | $6{ }_{6}$ | 66 | $\checkmark 6$ | 66 |
| 20 | 61 | 46 | 66 | $2 \cdot 12$ | 66 | 66 | 46 | 66 |
| 40 | ＊ 6 | 46 | ${ }^{6}$ | 121 | c 6 | 66 | 6 | c 6 |
| 80 | 6 | ${ }_{6}$ | 64 | 604 | 6 | 66 | 46 | 66 |
| 70 | 46 | 6 | 6 | 6．）${ }_{4}$ | ${ }_{6} 6$ | 66 | 66 | c 6 |
| 60 | feet | 64 | 4 | 726 | 66 | 66 | 16 | 66 |
| 110 | ${ }^{6}$ | 6 | ${ }^{6}$ | 369 | 66 | 66 | 66 | 66 |
| 120 | ＜ 6 | 6 | 18 | 36： | 6 | 68 | 66 | 6 |
| 2.10 | 6 | 66 | 66 | $19 S$ | 64 | 66 | 66 | 66 |
| 240 | ＊ | 6 | 6 | 99 | 4 | 46 | 66 | 6 6 |
| 440 | ${ }^{6}$ | 4 | 4 | 99 | 6 | 6 | 66 | 66 |

A box $24 x 16$ inches deep contains one barrel．


The Fifteen－Yousg－him Problem．－The Lon－ don Mathematical Society lately oceupied itself wath a discussion of the following problem ：＂In a schon of fiteen gorls a rule has been laid down that they shall walk out every day in rows of threes，but that the same two girls，shall never come together twice in the same ruw．＂The rule is supposed to have heen carried out correctly during the six－ working days of the week，bit when Sundiay comes it is found impussible to send the girls to chunch without loreaking the rule．＂This problem was amounced more than a quarter of a century ago， and has engaged the attention of distinguished mathematicians，for the reason that its solution in－ volves the use of mathematical synthesis．Prof． Sylvester＇s yaper，in which the sulject was discussed， was＂on the fifteen－y nung ladies problem and is general mathematical theory of pure syntax．＂－ ＂Scientific Miscellany，＂in the Galaxy．

Fuclid was a mathematician of Alexandria，who flourished 300 years before the Christian era．He distinguished himself by his writings on music and geometry，particularly by his fifteen books on the
elemesto of mathematics, which consisted of problems and theorems, withidemonstmenons. Dhuch of this valuable watk has heen lost; the first six books and fragments of the sulusequent ones still remam, and servo as the hass of all text-books on geometry. Lucher estalished a famous school of mathematics at Alexamiria. Among lus pupils he numbered King P'tolemy, to whom, whenquestoned by the monarch, if there was no easier way of mas. tering mathematical tri:ths, he gave the famous : reply:-" "No, sire ; there is no royal roul to geom-1 etry." He is said tu have been of an amable disposition, and frec from jealousy of has rivals.
$\Lambda$ correspondent sends us the following- You would confer a favor by sending me a solution to this problem: There is a bowl in the form of the segment of an ohbog spherond whose axis are to each $u^{t h}$ her in the ratio of 3 to 4. The depth of the bowl one fourth of the whole transverse axis, and the diameter of the top 20 mehes. IIow many glasses each will a company of 10 jersous have in it when tilled wath wate? They use a comeal glase, whose depth is two mehes, and dameter of its top (brim) an inch and a half. Faithfullybyours,

> A. B., Toronto, Ont.
[Correspondents will please read the note at the head of thes Department. We will send solutions only through the Compasion and Tenchem. As the above is a good problem, we wall give its solution in a future No.-EDITOR]

On account of our haste in going to press this month, No. 26 appears over " Yroblems" mstead of zinder, on page 48, first form, now worked off.

## Educational intelligence.

The last regular meeting of the Madoc Teachers' Association was held on Sept. 30th.

Before the discussion of the programme was entered upon, the President made some remarks suggested by a recent visit to the schools of Philadelphia, and an anspection of the educational exhibits made by several States of the Union at the Centenpat. The liberality of the Philadelphia people in educational matters was characterized as unsurpassed. The teachers are well paid; the schoulhouses commodious, conveniently arranged on the Whole, and supplied with every necessary appliauce.

In the Primary, Seenndary, and Grammar Schools (the three corresponding to our different grades of Puble vichools, the govornment and disciplue were excellent. Mutual confidence and affection evidently existed between teachers and pupils. Notwithstandang these and other pleasing features, Mr. Mackintosh had no hesitation in saying that in the qualification of its teachers, in the educative Falue and thoroughness of the work done in its achools, -1 n short, in everything that distingoiahes really good schools from those in which the work done is but showy and superficial for the most part -mere educational vencering --the schools of Ontario excel those of the Umited States. Although more than ten times more populous than Toronto, the "Quaker City"has no Public Sehool which even approximates in excelleace, to the Ontario Model School, at Toronto.

In concluding his remarks, Mr. Wackintosh paid a high compliment to the teachers commected with the Philadelphia Teachers' Instatute for their un-
bounded kinduess and courtesy. In these quadi they camut le excelled.

A general disenssion on "Irregular attemlanci its ('anses ami Cure" then took place. Animetel.. well sustained, this was a very interesting pare the proceedings. At the close of the discussin. opinons elicted were summed up, by the Pionit who made an cornest appeal bo the teachers to forh every effort m their power to check an onl rumous in its influence in our schools.

As to the means to be adopted fur lessenmer evi, the use of prizes, a proper system of keep. class registers, visitug parents, ctc., were rect mended. The opinions expressed may be suma zedias fulluws Furythug that mads to make
 valnolbe, will diminish arrestular attendance. teachers, irclare, in the must thorwaghmaner each day"s worh; let the hours of opemmg a elosing be igidly adhered to; let teachers thu srlvea he molela of regular attendance and pun ahty; let nriler and system oltam an everythe In short, let teachers prove to pupils and part by their cheerfulness, encrgy, thorough preparat: orderly habits and unfailing enthusiasm, that th are devoted to their worh, - that their heorts ast it-that the prosperity of their schools oceuphes most prominent place in their minds, and arrect attendance will, gradually it may be, but certain: decrease.

Trustecs can do much to aid in this work. Sche houses can bemade morecomfortable. With di rarely washed, untidy and uncomfortably-ses scheol-rooms, irregular attendance is not to be w dored at. Make the school-house and its surre: dings tasty and homelike; mako the out-how something different from the disgraceful pens many of them are, aud more children will los attend school.

Cousty By-Law to Ansen to a Sectios Pominas of tue Township where timere no Scaool. The County Judge of the Count Norfolk has given judgment in a school case wi possesses both interest and importance. The 1 icipal Council of the Townshy of Walsingham passed a by-law attaching Long Point on Lake 5 to one of the existing school sections of the to ship. The Long Point Company refused to ; their school tax, and the section entered an aci to recover the amomit. It was admitted by plaintiff's counsel thast the part of Lony $P$ nearest to Port Rowan, the site of the school, distant four miles commanication being by ws and that the part farthest of is twenty-five nit The by-law was declared by the Judge to be bi celtra vires of the Comeil, and contrary to the? tention and reasonable interpretation of the ${ }^{-c h}$ Acts. The by-law was held to be beyond the cai yetence of the Council to pass, because, altho: the School Law confers upon township councilsi right to form into school sections portions of: township where no schools have been establists and to unite two or more sections into one at request ot a majority of the assessed freeirlds aud householders, it nowhere authorizes a cour to annex a portion of the township where thert no school to another portion where there is a It was further held that the manifest intent of: school las is to briag the means of obtaining? education within the reach of all, and that the 1 itself contains provisions guarding against creation of insurmountable physical obstacles the attendance of the children of the section file olfings and professions；therefore，be it resolved， e reconjat．That the security of our country ard the e recerifest interests of society demand that those who sumn firgintrusted with the education of the rsing gen－ make：
olutions adopted at a mecting of the Educa－ 1 Association of the County of Dundas，held orrisburgh，September Sth， 1876 ：－
at it is the opinion of this Association there d be tro grades of Third Class Certificates， A B．
at the subjects of Examination for Third ，grade B，remain as at present．
at for Third Class，grade 1 ，teachers be ex－ ind in the subjects already land lown for Third and also in Algebra to ml of simple equa－ Euchd Book I．，and Brok keeping．
t for each grade of Certiticate a minimum of per cent．be required in the subjects of Arith－ paud Grammar．
Yit each grade of Certificate be valid for two
bat each grade of Certificate may be renewed provided that the caudulate for reneral of jheate obtain sixty－six per cent．of the total ber of marhs，and also sixty－six per cent．of number of marks assigned to the subjects of Shmetic and Grammar，aul that renewed cer－ ates should be so marked．
le most successful Teachers＇Institute ever held Orth Essex was that which closed its session Faudrich on the evening of Friday，Nov．3rd． ing to the eacrey of Inspector Girardol，nearly The teachers of his inspretorate were present． prigramme consisted of a lecture on＂French Gnmar and Orthography，＂by Mr．Girard，of bey Point；＂How to Teach Arithmetic to Be－ gers，＂by Mr．Pringle Shaw ；an essay on the ofnence of the public schonl upon modern civili－ On，＂by Miss Armstrong，of Maidstone ；＂Writ－ ＂by Mr．Eli Benitean；a paper on＂History，＂ Mr．Barr，of Windsor；＂Grammar，＂by Mir． rrison，of Maidstone；＂How to teach Feading，＂ Ar．Ashdown，of Sandwich．Mr．Duncan read
an essay upon the question＂＂Is the education of our public schools as practical as it ought to be？＂ Mr．Ashdown，of Sandwich，read a very fine essay on the suject of＂The Teachers＇Library．＂Mr． ＂McHugh，of Maidstone，introducel the subject of ＂Object Lessons．＂Mr．Albert Boudy，of Sand－ wich Vest，gave an cloguent address upon＂Tho relations of teachers，pupils and parents．＂Mr． Girardot read an address to the Hon．Adam Crooke， after which came Mr．Crooks＇speech，in which he agan shoucel the deep interest he is taking in the matter of education throughout all parts of this province．The convention was a complete success．

In Lower Canala to day we have a body of teachers of all grades，of which we ought to bo proud，and which forms a solud basss far any fore－ cast of the population whach is hereafter to possess the land．For，as the teachers are，so wall be the people．It is often complained that the teacher＇s profession is not regarded with that respect which is due to it，and，indeed，there is some reason for the complaint．Those who devote their livep to the forming of the minds of a growing people ought to hodi a rank in the popular affection and esteem second to none．Oa them it depends how the plaees which we now fill will be filled here－ after whether the land which we love will be a land of knaves，of sluggards，of rouis，or a land of honest，industrious，noble men，doing their duty to Goll and to their fellows．The teacher，there－ fore，ought to have the sympathy and the support of the whole communty．Especially ought parents，as far as lies in their power，to co－operate with him in his efforts to arouse the intellectual and mural cuergies of the young people committed to his care．They ought，instead of makmg diffi－ culties．or adding to those already made，to exert themselves，wherever possible，to smooth them away．And in hove many ways they can do so， if they only take the troub＇c ！－Montreal Guiztle．

At the Cuunty of Haldimand Tewhers Convention held at Coyuga，on the Bith ult．，Dr．King，Princi－ pal of the Caleduna I igh shool，delivered amable， impressive and eloguent adiress．He ponted ont the wery great benefits and alvantages wheh are derivalle tu teachers from thear connection with such Conventions．He sad education had for its object the lirelopment wi the neoral and mellectual capacities，he showal how it served to expand the minus of the young，to awaken and cherish a love for the leantiful and gool，to clerate them in the seale of broms，and esentually th fit them to dis－ dharese all the duties of hife amd enable them ade－ quately to dremeciate ame fanthinlly to impure their highest jusulile derrce to their hatpmess and well－ being hereafter．Ife ulso said that the strength and prosperity of a mation depend on a well－educated commmmey，and that there was nothung which proves so much the progress that a people are mak－ mog in intelligence，wealt and in everything that contrabute tu ther secial，monal and political great－ ness，as tie attention which they devote twa higher staniaril of education in the public schools，and the erectuon of neat and substantial school edifices．

The people of Purt Hope have undertaken to instruct there sch ol Boaril in matter；pertaining to the organization and conduct of their rown schouls．i petition signed by 300 of the rate－ pajers，was jresented at the last meeting of the Boanl，pribing for a reiuction in the school expen－ dituec，the exteusion of the school day to at least
six honrs, and curtailunent of the vacations to the legal limit; a reduction in the size of the junior, and an increase in that of the semor classes; the abolition of the fifth and sixtls classes of the Public School, and the translation of the pupls composing them to the High School, so that they may loring in a larger grant, that the teachers of the higher grales inay have subjects allutted to them mstead of classics, and that the number of higher salaried teachers may at once be lessened as far as tho new classiflcation may permit. The petition wss reforred to a Committee of the Board, with instrnctions to report at nest meeting.
The openng article in The Canadian Mechanies' Magazine and Patent Office Recorl, on Public Schools, among other thungs says:-"Another source of complaint by parents is tho injastice of keoping a whole class in, aiter school husurs, as as punishment for the undiscovered guilty one, because none of the childien would be mean enough in spurit to point out the child, and have it punished, for what? perhaps, after all, some trifling infringement of school discipline. As it is, the hours for children in many of our pubhe schools aro already too long, particularly for girls residmg in towns. Oi what nse is education without health and life to enjoy it: and certanly the hours of our town schools are too long. When a girl is kept in the close confinement of an over.crowded room, from nine in the morning till balf past three, and oven four o'ciock, in the afternoon, particularly in the winter, what time has that child for exercise? tho afternoon is closed for out-itoor reereation and household duties, and evening studics close the day. No wonder so many of our girls grow up untit for the domestic duties of hife."

## Lmportant Decisien on Compelyory Attend.

 ance.-A few days ago on interesting case was tried before a bedch Lf magistrates of Wawniosh. John Marwood, of lot 30, con. 7, Fast Wamanosh, in 1875 faile 1 to send his children, aged respectively 12, 10, and S years, to school for four months of the year as the law prescribes. Ho further refused to pay the tine which the trustees are empowered to impose, and which was in this instance fixed at 40 cents per month oi alsence. The trnstees of S. S. No. 7 thercupon cited him before the magistrates, and having consenred to cancelling the fine in the case of the younger child, Mr. Marwood was ordered to pay the 80 cents fine. The fiue and costs amounted to S3. S). This should prove a warning to parents who refuse to send their children to schuol. - London Fore Press.At the last regular mecting of the North York Teachers's Association there was a large attendance of teachers from the surronnding country and villages The prineppal busmess transacted was the readiag of "Parrhasius," and critiensms thereon; lecture on "Methods of Teachneg and School Or. ganization," by Mr. Fotheringham; solution of 2nd class examination paper on Arithmetic, by Mr. Flyun, of Aurora; the Amalgamation of the Library and Teachers' Association of the North fliding of Fork; Readings by Messis. Flynu, Dickenson. Beaton, Jewitt, and Ranue ; a recitation by Mr. McMahon, and selections of music by Mr. Love; analysis of Grey's Elegy; and arrangug the programme for next mecting.

On Friday, Nov. 10th, 1876, a very interesting and instractivo meeting of the County of Perth

Teachers' Associntion took place. Many importar subjects wore ably discussed. Wm. Alexanden. Esq., Inspector, was the recipient of an audres and presentation from the teachers of the count Mr. Crooks presented the Ontario Gokl Med awarded to Mr. McLurg, and in so doing spmbe highly of Mr. McLurg's scholarly abihty. He: Mi. Crooks also delivered a very instructive lect: and was loudly applanded Many of the teache and several rev. gentlemen tonk part in the vatio discussions which weru brought iorward.

At the last meeting of the Siratifoy Teache: Association, the programmo consisted of " $a$ is cussion on lieduction ;" Inspector Carson's ilh tion of his method of teaching, a junior class "' Count and Add ;" Mr. Glbson's method of tew. ing " Junior Geography ;'" an Essay on licauln: by Mr. Hands, of Jones Commercial Cullegr, I don, Ont; Inspector Deamess give his views Jumor licading Classes; the presentation of address to the Hon. Ninister oi Education; pratant remarks from G. G. Ross, Esq. ; $X$ Crooks' rddress. The meeting tras very sucecisti
Dr. Hodgins, Depaty Muister of Education, livered a lecture in the evening, taking for his su ject, "Harmonies and Incongrunties of our prese School System." The lecture, wheh occup: nearly two hours, was able and impressin and proved conclusirely that though some diser te at was often manifested with the workings of $t$ Education Department, yet that department always amed at advancing the educational inter of the country at large, irrespectave of sectio, feeling. The Doctur's remarks elicited the gene approval of all present.

Hrgh School Extmance Examination. examination for admission will be held on Tues and Wednesday, the Sth and 10th December, Io in accordance with instructions issued.

Mr. Crooks claims that in Ontario we have: three essentials of a public school education, ${ }^{5}$ a universal, effective, and an ceonomical system.
The Normal schools of Ontario accunmodat 250 teacher students, while 2,000 teachers a ya presented themselves.

I occasionally notice in the newspapers that thermometers stood higher in the summer 3 lowerm the winter in thas town than indicated my record. This is partly owing to aucorrect the mometers, and partly to their location. I ha found that the mercury in my glass will fall degrees on a cool morining when taken to a lef piece of laud forty rods from where it usud havgs. I keep it hanging on the north eud o: shed, under the shade of a tree. If hung on the house, built of brick, the mercury will vary iow one to three degrees in cold weather, from the bes of the fire insude penctrating the walls. Mas persons hang their thermometers on the shad side of a post minder the piazza. The reflectiond the sun's rays from the house causes the necras to rise several degrees higher than it would if hut where the sun could have no effect on the glas, The animal heat from a yerson standing yeat thermometer for a few moments on a very cold d will cause the mercury to rise, and in taking t. rate of a glass it should be done quickly.-Mas. Farmer.

## Fireside Department.

itten for the Companion and Teucher. ow Marry Lawrence Changed his Mind.

By T. H. L.

By Jove, the man's a fool," said Harry Iawce, sulto roce, and as a parenthetred cwatacnt on tter he was reading, at lee sat at the lireditast e. Jhough he suarcely intumbed it, termank hearl buth ly has sister amp father. The hater nothing, but the former replem, mascherously. do he's a man, Ial, it's very hikely he is Mat has incurred your displeasure now, mul what he done, and why has he duncest, and wat are going to do to him?",
My lear Kate," replieal Harry, "Wem, mhus, always ask a great many mure quest:ons than possible to answer; but I 11 tell you as much can.-Jack Camphell, an ohl colloge chum of e, has gunc married.'
Eh! what, Harry?" cried las father, starting fom his perusal of the Morning Thumderbolt; he mad, eh? Yery sad, very sad. How dit it ben, ch ?"
Ato, no father," said Hal, laughing as he spoke ; t gone mad, lut gone marred, although really e is not much difference."
Ah! Hal, for shame," exchamed his sister, n sure that's almost profanity."
Well, it may be, Kate, butit's my behef. A man a he gets married turns his back upon the most furable portion of his life, and gives hanself up S existence of perpetual care and worry and Pty. But I'm sorry for poor Jack." And Harry hip from his breakiast, and leit the room with a dy look, which contrasted greatly with his usamerry, good-humored expressiun.
Eh ! what's wrong with Horry, eh, Kato?" said Iawrence, as the door closed lehind his son. really don't know, japa; but Harry has such fiar iteas about marrying-I'm sure it's yuite thl to me."
Gd so it was, for pretty Kate Cawrence was emhat of a match-maker, ami the openly avowed tions and musogynistic habits of Harry had aly, in more than one instannc, fullel her plans him; and this umatural dusposithon of her only ther, Kate, as she said, fumid quite a trial, or at It so she imagined, which ammuted to the sane og. But defeat had not clislieartened, and she cen now photting a marriase secne in wheh brother and one of her must partzoular friends to was shortly cc.aning to ('oumbe Hull oh a wisit) e to sustain the leading parts.
Combe Fall is a "picturesque comutry residence, ading in its own grounds, amblastanthadit amuc In Coombe vallage" (vide Giude book): and bimber as every one knows, w ohght to know, is ittle village in the sonth of Dervinhine. Anda y pretty little rillage it is, as it nestles cosuly ong the tices, with its grey charuh-tuwer, menent. ary-clad, pointing ever heavenward, and the cly Tamar, in the distance, calmy flowing on ards the sea, a glimpse of which can be caught m the high gromul near the Hall. The beanty the surrounding country it is annecessary to extiate on, for Devonian scenes are famous for auty, and no one who has seen them can ever
forget the rich undulating mealors, the l, i, ight fields of waving corn, releved here ard there with dark patches of woul; the quet shand lanes with therr hyh hedges, thully covered with fern and vine and ivy, and a thomsond whed flovers of rustic lowitt, luadmy the ar with irdarmate, the bright streminet suging gaily as it lays frum nase mass. concele rock to another, or murmuring softly as it winls through grass and selpe, by the wy.clad willuw and the lordly oak; the deep, still river, clear and tront-lahen; the whitewabled cottoges

 low hamb listrits of Down: whe the suage gran-
 of henty to the liver of matures asthetces.
Dit in retumi harrs hail suarcely tume to rec"u from the ill eflects, of the ammanement ot has frump marrare when thecumber Ala Smehler ( Kate's lusom friend and proma iomma m the marriagereme befure allulel tul gate ham new canse for dionpuctude. He dind nut meet her un har arrival. Dut mumured hamseli m hit, "den," (as Kate sant- "stuly," us he saill, and ran wer in lus num immanerable sehemes fur escapng from the perecoutinu he furesaw was crin!ng, huvohng to and finc crigitutunts a well-colored meerschaum of huge dumbsums, from which he putfel such valumes of smuke that the room was presently filled wath an atmundere calculatel to clle tually choke any nonsmoker whe might have the temerity tu enter the ayartment, Bat Harry theoght on througd it all, until his ineas became as misty as the surruming objects, and the first dinner-leell rang without find. ing him $m$ pussession of any satisfactory plan. Still the forms of society must be complied with, whatever happens, so Harry reluctantly dressed and went luwn to dinner, wishng Miss Fanchler anywhere lout muder has iather s roof.
No description will be given of the vision of loveliness that Harry sam when, on has arrival downstairs, he was un due culrse introluced to his bete noire pour ht temps. Every whe has his own ideal of beauty, and the exercise of a very shight amount of imarimation will enalle the reader to see that Miss lancller is very leautiful, her face divne, her form a rcalised ideal of perfect grace-at least Harry thought sio: yet, though her beauty and grace made, in spite of his bachelor proclivities, a great impres. sion on linn, he dad not relax that studied reserve wheh he alway. wssumed in the presence of those lahtes whan lic imaghed to have designs upon ham, but uantaned ou aspect grave and dignified, as he thouldit-surur and ill-tempured, as Kate and Ada thought. Howerer, ther phal no attention to hm, but with the and of Mr. Lan relice, carricio on a most animatul cullessation. Defue dimerwas over they had arrubsol walks and wamemenus for a week at least. but tw Harry's surprise, without in any way inchuint, hum in ther phat; ; and thes surprose was mercased loy the fact, whel le coull nut fal to notice, that .ffte has metioninction to her was over, dela lamhiur semmal comphetely to ghare has presence. As a rule, the yrang ludies of his acquantame lawl rather set thear caps at Harr, who was
 therefore it is mot to be wombered at that uar hero was a little spoilt in his nutions.
Dimer over, he partonk himself to his romm, and again inveled the aid of the soothing weded, whle he commed over the excuses he should make when asked by his sister to accompany her in a walk, This was Harry's "usual custom of an afternoou"
when any ladies were staying at the house-and a very ungallant custom it whs ; but on the present oceasion he might have saved himaelf the trouble, for tos his intense surpise, Kate and her companom passed has room without youchsating the least sugn that they were aware of his existence. Harry's first sensatern was one of rehef, his second one of (must it beconfessed) mortified vanity. I'oorfollow, it wasmot has fault, for he had been so much sunght after that he had, uneonscionsly, begun to fancy that hiss sister and his sister's friend eonfeln't well get on without Chim. But this confomaded Fanchler gerl, mused he, and then his tobaceo suffered. In a short time, however, he recoverel has wonted sprits, and walked round to the stables. There another surprise awaited him. John, the groom, met him with a long face, and described how the visitor hat takel: Aurora (the most sprited ammal in the stables, and Harry's own private property), and had (riven over to the ferry with Miss kite. "But," sand Harry, "is she able to drive Aurora, to you think?" Jom thought yes, as she appeared to handle the reins better than most joung ladies. He also ieported that the young lady, when he remonstrated with her on taking "Master Harry's horse," had said that "Master Harry should have irwen her himself." "Well, well," muttered Harry, as he turned away, "a wilful woman must have her way;" and with this consoling thought he again retirel to woo solitude.

The window of Harry's "den" commanded a view of the drive which led from the rondt to the house, and here he stationed hinself to watch the arrival of "those headstrong girls." In due time they came, and as Harry noted the way in which Aurara was being handed, he was obliged to admat that John's estimate of Miss Fanchler's driving powers was correct, and he half determmed to congratulate her on her skill; but her remark "that he should have driven her humself" came into lus mund, and he conchuded with a sigh that she was as bad as the rest.
"A whole week passed, and he had never once been asked by the ladies to favor them with his company. He was getting savage about it, while Kate and Ala seemed to be enjuyny themselves more and more every day. He made frequent and vehement resolutions not to think anything more about Miss Fanchler, but broke them as often, as the image of Ada rose in his mud and revolutionsed his ideas of women. Like many another who has tried to stifle the growth of a pure luve, he-fanled. But his sense of what was right at lemgth recerved a great stroke. One day he luand liss Fanchler alone in the drawng-rom. She was singmy as he entered, and the mellow tones of her rich contralto voice sent a gueer sensation through hm, wheh he would perhaps have found dificult to amalyse: but analysis was far from has thoughts. Poor Harry was caught in the touls, and the god of love hal taken vengeance on the detractor of his power. Ada ceased suging as the door opened, and turnmg round on the music-stool, exclamed:
"Oh ! Mr. Lawrence, do come in ; I want so much to have a talk wath you. Jou know I'm such a great friend of Kate's, that I may be pardoned for taking an interest in her brother, and I want, therefore, to give the brother a little adnce."

Harry murmered something about being " most happy," but could not for the life of him understand what she was driving at.
"Now, don't be too sure about being happy, Mr. Lawrence," continued Ada, "for you havn't heard

What I'm going to say yet. I an going to take to task severely, sir. Now listen: I have staying hero a week or more, and you have ne once offered me your services as escort, never six to me more than you could help, never lowe. me, except with an expression of face sour mis artreme. Such a catalogue of offences ough: overuhelm you. I'm not used to such treatm you know, amldon't like it.' Now, what hate to say before I pass sentence on you s"
lle hat, of conrse, nothing to say. This sui and unexpected attack nearly took his breath is He only looked at her in a state of perspime whilerment, bat no excuses could he frame.
"I am glad to sce," complacently remarken "that you are not graceless enough to ofic: excuse for your comduct - it is, in ficet, ment cusable. Why, most young men would have me an offer long ago." After a slight pausp, continued, retlectrvely "I should so like to se make a declaration of love. Do, Mr. Lavr whll you?"
But Mr. Iawrence didn't seem to see the for he looked very glum, int said nothing.
"Mr. Latwrence," said Ada, severely, " surprised at your refusmg a lady's request. down on your knees at once, sir."
Thes commanded, Harry went down on knees, but with a bad grace, and thinking a things to himself the while.
"Jow commence," sand Ada.
"But what an I to say?" asked poor H dolefully, as he reflected that he must be lick very much hee a fool, and of course he diiln lish the dea.
"Say !" scornfully repeated this peculiar lady; "say! Why, you really ought to" what's proper to say when you go on your kue a lady. But env somethng, and quickly tno you're looking vei." ridiculous all this white."
"Dearest Ada," exclamed Harry, reduce desperation, "I love you devotedly; wili y" mine ?"

And he said this in such a con amore way even Miss Fanchler was taken by surprise, faint blush mantled her cheek ; but speedu. covering herself, sle replied:
"Is that the way you propose? I don't whether you mean what you say, but you will to gractue a much hetter style of declaration that, if you want me to say yes. And now yo: go, for I want to get up this song."

Thus dismissed, Harry slowly left the roun retired to his "den." He was yerfertly stup with his extraordinary intervies with Fancher girl," and invoked, as on previns sons, the and of the balmy weed to restnre ho his usual condition. This accomplished, he resch to have nothing more to do with Ada Fanchly any other girl, "bar Kate." But the next in"r at breakfast Ada looked so charming, and ta with him go gemally, and smiled on him so bew: ingly, and in consequence of this treatment all virtuous resolntions of the evening before vams so quickly that cre the matatinal meal was he had engaged to divive Ada and Kate to Ma Church, and had promised a yachting party for nextilay. Once the ice broken, he was constar his attentions.

Every day spent in Ada's socicty only mi Harry's chains the firmer, and he exerted hin to the utmost to produce a favorablo impress Sometimes be imagined he had succeeded, as:
w warm and even tender in her manner toward； ；but as often her mool would chanere，and she earch cold and distant，or full of rallery aml ciasm－a course of proveceding wheh snom reduced r Harry tua bety proper ytate，ama made ham fous tor repeat in earnest the propesitum he hat le before in fan．Fortane was kame to hom m oing，ani shortly gave han an nportunty of foing his muml．

> To be continuerd.

## The Cost of a Train．

$t$ the time when the first open court of law established in Russia，a buly，dressed with the ost elegance，was walking un the Miscon pro－ ale，leameg upon her hubbami＇s atm，anil let the long train of her rich dess sweep the dust dirt of the strect．
joung officer，coming hastily from a side t，was so careless as to catch one of has spurs olady＇s tram，and in an unstant a great prece torn out of the costly but irail material of the I beg a thousand pardons，madame，＂said the rr，with a polite bow，and then was zhout pass－ n，when he was detamed by the laly s has－
Sou have insulted my wife．＂
Fothing was farther from my intention，sir． wifo＇s long dress 15 to blame for the accident， I I sincerely regret，and i beg you once more Ceive my apologies for any carelessness on my Thereupon he attempted to hasten on．
you shall not escape so，said the lady，with cad thrown back in a spirited way．＂To－day first time I have worn this dress，and it cost pundred rables，which you must make good．＂ My dear madame，I beg you not to detain me． obliged to go on duty at once．As to the tro red rables－I really cannot help the length of dress，yet I beg your pardon for not having more cautious．＂
On shall not stir，sir．That you are obliged On duty is nothing to us．，My wife is right； Tess must be made good．＂ officer＇s face grew pale．
Fou force me to break through the rules of the ce，and I shall receive punishment．＂
Pay the two huadred rubles and you are free．＂ be quickly changing color in the young man＇s betrayed how invardly disturbed he was；but bing close up to then both，he said，with ap－ int self－command ：
You will renounce your claim when I tell you I am a－a－poor man，who has nothing to live at his officer＇s pay，and the amount of that pay ly reaches the sum of two hundred rubles in a （c year．I can，therefore，make no amends for misfortune，except by again begring your on．＂
Oh ：anybody could say all that；bat raell see is true；well fud out if you have nothing but pay．I declare myself not satisfied with excuses，and I demand my money，＂persisted lady，in the hard voice of a thoroughly unieel－ Foman．
That is true－you are right，＂the husband d，dutifully supporting lier．＂By good luck have the open court now just in session．Go us before the juige and he will decide the ter．＂ 11 farther protestation on the officer＇s part that
he was poor，that he ras expected on duty，and so forth，did not help matters．Ont of respect to his uminrm，and to av uid an open seene，he had to go with them to the eourt－ruom，where the gallery mas densely packed wath berowd of people．

After waiting some time，the lauly had lease to oringher complaint．
＂What have yo to answer to thes emphant？＂ said the julge，tu，ning to the otticer，who sermed embarrassed and half in despair．
＂On the whole，very litele．As the lateness of the hime，and beng required on duty，cempelled me talnary， 1 did nut notice thas liadyon tram， whilh wa－ilrageng wh the gromml．I camght one If my shars mit，and had the misfontume to tear the hess．Dablane would sot recene by ex－ eases，lat perhaps nuw she morht fimblherself more disinsul to furbiveness．When 1 ：atan lechare，so hel $\mathrm{p}_{\text {；}}$ me Guch，that I cummatel thas ankward hamir withont any misthwoms intention，amd I carmestly bees that she will pardon me．＂
Amuinur ran though the gallery，evitently from the penple taking sides with the defendant， and agamst lung trains in cencral and the lady in particular．
The jbilige callent to oriler，and azked－＂Are you satistied with the defendant＇s expanation？＂
you satished with the def at all satisfied．I demand two hundred rubles in payment for my torn dress．＂
＂Defendant，will you pay this sum？
＂I would lare paid it long before this were I in a position to do so．Unfortunately I ampoor．My pay as an oflicer is all I have to live on．＂
＂You hear，complainant，that the defendant is not able to pay the sum you denand of him．Do you schl wish the complaint to stand？＂
All unbroken stillness relgned throughout the hall，and the young officer＇s breath could be heard coming hard．
＂I wish it to stand．The law shall give me my rights．＂
There ran through the rows of people a murmur of indignation that sounded like a rushing of water．
＂Cousider，complainant，the consequences of your demand．The defendant can be punished only through being deprived of his personal liberty， and by that you could ohtan no satisfaction，while to the defendant it might prove the greatest injury in his rank and position as an officer，and especially as he is an officer who is yoor and dependent upon his pay．Do you still insist upon your complaint？＂
＂I still insist upon it．＂
The course the affair was taking seemed to have become painful to the lady＇s husband．He spoke with his wife urgently，but，as could be seen by the way she held up her head and the energy with which she shook it，quite uselessly．The judge ras just going on to further consideration of the case，when a loud voice was heard from the audience：
＂I will place the two hundred rubles at the ser－ vice of the defendant＂
There followed a silence，during which a gentle－ man forced his way through the crowd and placed himself by the yount oflicer＇s side．
＂Sir，I an the Prince W＂－，and beg you will oblige me by accopting，the loan of the two hun－ dred rubles in question．＂
＂Prince，I am not worthy of your kindness，for I don＇t know if I shall ever be able to pay the loan，＂answered the young man，in a voice tremu－ lous with emotion．
"Take the monoy, at all events. I can wait until you are ablo to return it." Thereupon the prince held out two notes of a hundred rubles each, and coming close up to him, whispered a few words very anftly, There was a sudden lighting up of tho officer's face. Ho immediately tonk the two notes, and, turning toward the lady, hauded them to her with a polite bow.
"I hone, madame, $y$ :nu aro satisfied."
With a malicious smile she reached out her hand for the money.
"Yes; now I am satosfied."
With a scormful glance cere the crowil of spectators, she prepared to leave the court-room on her husbandi's arm.
"Stop, matame," said the ofticer, who hat sultdenly become like another man, with a firm and contivient manner.
"Wlast do you want?"
The look that the yonng woman cast upon him was as insultung as posstile.
"I want my dress,' he answered, with a slight but still perfectly polite bow.
" Give me vour address, and I will send it to you."
"Oh, no, m dear madame; I am in the habit of taking my purchases with me at once. Favor me with the dress immeriately."

A shout of approbation came from the gallery.
"Order!"
"Whatan insane demand!" said the larly's hus. band. "My wife cannot andress herself here."
"I have nothing to do with yon, sir, in this matter, but only with the complainant. Be so good, madame, as to give me the dress immediately. I am in a great hurry; my affairs are urgent and I cannot wait a moment longer."

The pleasure of the audience at the expense of the lady increased with every word, until it was hard to enforce any approach to duiet, so that either party coui. be ineard.
"Do not jest any more about it. I will hurry, and send you the dress as soon as possible."
"I am not jesting. I demand from the repre. sentanive of the law iny own property, that dress," said the officer, raising his voice.

The judge, thus appealed to, decidod promptly.
"The officer is right. madame. You are obiiged to hand him over the dress on the spot."
"I can't undress myself here before all these people, and go home without any dress on," said the young woman, with anger and tears.
"You should have thought of that sooner. Now you have no time to lose. "Either cive up the dress of your own accord, or-" A nod that could not be misinterpreted brought to the lady's side two officers of justice. Who geemoll about to talie upon themselves the office of my lady's maid.
"Take your money back, and leave me my dreas."
"Oh, no, madame; that ilress is now worth more than two hnndred rubles to me."
"How much in you ask for it!"
" Two thousand rubles," said the officer, firmly.
"I will pay the sum," the wecping lady's husband responded, promptly. "I have here five hurdred rubles. Give me pen and paper and I will write an oriler upon my banker for the remainiug fifteen lundred."

After he had written the draft the worthy pair withdres, amidst hisses from the audience.

Query: Did the lady ever again let her train weep the strect?

## Miscellaneous.

The Trame whome nobred and Thirsted Wrims - A rubust trampealled to a house for so: thing to eat, averring that he had not tasted fo
week.
"Why dun't you go to work?" asked the 1 to "him he preferred has petition.
"Wiork ?" he ejaculated. "Work! And u: have I been doing ever since tho middle of $y$ hut hanting work? When did I ever ref work?"
"Well," said the woman, "I guess I can \& you sume eniphoy ment. What can yor do "
"Anything !" he shoutch in a sort of delin joy. "Anythnge that any man can do. I'm: for anmething to tly at. Why, only yesterilay workel all day carrying water in an old sieve f: Flint river and empting it into the Mississ:: just hecanse I was so tired of having noting to and had to work at something or 1 would ho gone ravin' crazy. I'll do anything, from clear house to building a steamboat. Just giveme wh ma'rm, an' you'll never hear mo ask for br ggain."

The la'y was pleased at the willingness anxicty of this industrious man to do someth: and stie led him to the wood pile.
"Mere," she said, " you can sare and split' wonl, and it you are a good, industious worke will fiad work for you to do si carly all winter."
"Well, nuw," sand tho tramp, while a look disappomiment stole over his face, "that's my luck. Only three days ago I was pull blind cow ont of a well for a poor widow wor who had nothin' in the world bot that cow to port her, an' I sprant my raght wrist till $I f$ been able to lift a pound with it since. You just put your hand on it now and feel it throb so $1^{\text {rainful and inflaned. I could just cry of }}$ alpointment, but it's a Bible fact, ma'am, th coullin't lift that ave above my head ef I died it, and I'd jest as lief let you pull my arm out the roots as to try to pull that saw through a ls Jest set me at something, J kan do, though, if. want to see the dust lly."
"Very well," said the lady, "then you cant these flower beds, which have been very m: neglected, amd weed them very carcfully for You can do that with your well hand, but I m you to be very partienlar with them, and get tt very clean, and not injure any of the plants, they are all very choice and I am very proud them."
The louk of lisappointment that had been che aw ay from the industrions man's face when hes a prospect of sumething else to do, came by deeper than ever as the young lady described new- jub, amd when she concluded, he had to main quiet for a moment before he could cont his eriotion sufficiently to speak.
"If I ain't the most unfortunate man Ameriky," he sighed. "I'm jest dyin' for wo crazy to get something to do, and I'm blocked c of work at every turn. I jest love to work ame flowers. and dis in the ground, but I never dased to do it, fur I'm jest hlue ruin among the pos: Nobody ever cared to teach me anything abd flowers, and its a gospel cruth, ma'am, 'I can't te violet from a sum-flower, nor a red rose from a o Kennel. Last place I tried to get work at, wou

Tho houso sot mo to work weedin' the garden, II worked about a couple of hours, monstrous il to get work now you bet, an' I pulled up ry last livin' greent thing in that yand. Pulled all the grass, every blade of it. Fact. Pulled - vine wuth soventy five dollars that had roots chin e'lar under the cellar and into the cistern, - yanked 'em right up, every tibre of 'en. man was so heart loroke when she came out aud the yard just as bare as the Hoor of a brick d, that they had to put her to bed. Mible truth, Y dh. ma'an; and I had to work for that house co months for nothin' and find my board to pay damage I done. Just gimme suthin' 1 kin do, show you what work is; but I wouldu't dare to fooln' around no flowers. Yol've got a kind rt, ma'am, gimme some work; don't scind a pairin' man aray huugry for work."
Well," the lady said, "you can beat my carpets me. They have just been taken up, and you beat them thoroughly, and by the time they done I will have something else ready for " The man roado a gesture of despair, and sat m on the ground the pieture of abject helplessand disappointed aspirations.
(Icok at me now," he exclaimed. "What is to become o' me! Did you ever see a man so fa in luck like me? I tell you ma'am you must me somethin' I can do. I wouldn't no more for to tech them than nothin' in the world, ear 'em to pieces. I'm a awful hard hitter, the last time I beat any carpets was for a an out at Creston, and 1 just welted them Ets into strings and carpet rags. I couldn't lit I cain't hold in my streugth. I'm too to get work, that's the trouble with mo, m , it's a Bible fact. I'll beat them carpets if say so. but I won't be responsible for'em ; no in me rork for nothing for the or six weeks y for tearin' 'em into slits, you know. I'll 'em if you say the word arad take the resablity, but the fact I'm too hard a worker to - olin' around carpets, that's just what $I$ am." e hady excused the energctic worker from 3 at the carpets, but was puzzled what to set at. Finally she asked hm shat there was he d like to do and could do with saffty to himAnd the work.
Well, now," ho said, "that's considerit in ye. t's real considerit, and I'll take a hold and do ething that'll give ye the wuth of yer money, Fou't give me no chance to destroy nothin' by in' too hardat it:, If ye'll justkindly fetch me 3 ruckin' chair, I'I set down in the shade and b the cows from liftin' the latch of tho front and gettin' into the front yard. An I'll do it and only charge you reasounble for it ; fur tho is, I'm so deady crazy for work that it isn't "pay I want so mach as a steadly job."
nd when he was rejected and sent forth jobless breakfastless, to wander up and down the cold, eling world in search of work, he cast stones to house and said, in dejected tones :
There, now, that's just the way. They call us d lot, and they say we're lazy and thieves, and it work, when a feller js just crazy for work, . wobody won't give hum nary job that he bin Won't work! Lands alive, they won't give fork ; and when wo want to, an' try to, they 't lot us woik. There ain't a man in Ampriky 'ud rork as hard an' as stiddy as I would, if 'd gim'me a chance.

How Mr, Buttenwick Counted Himshlf to Slesir--Mr. Buttorwick, of hoxborough, had a fit of slecplessness one nght, hately, and, after vainly trying to lose himself in slumber, he happened to remember that he oute read m an aimanac that a man coull put himself to sleep Ly imagmug that he saw a flock of sheep jumping over a fence, and by counting them as they jumped. He determmed to try the experment, and, closing has eyes, he fanced the sheop jumping, and began to count. He had reached his 140th sheep, and was begimung to dose off, when Mrs. Butterwick suddenly said:
"Jostph !"
" 0 , what?"
"I behere that yellow hen of cirs wanc. to set."
O, don't bother me with such nonsense as that now. Do keep quiet and go to sleep."
Then Butterwick started lis sheep again and commenced to count. He got up to 120, and was fcelng as if he would drop ofl at any moment, when, just as his 121 st shecp was to take that fence, one of the twins began to cry.
"Hang that child !" he shouted at Mrs. Butterwisk; "why don't yon tend to it and put it to leep? Hush up, you hittle imp, or l'll spank you !"

When Mrs. Butterwick had quieted it, Butterwick, although a little nervous and excited, concluded to try it again. Turning on the imagnary mutton, he began. Only sixty four sheep had slid over that fence, "inen Butterwick's mother-in-law knocked at the door and asked of be was awake. Whea she learned that he was, she said she beleved he had forgotten-to close the back shutters, and sho thouglit she heard burglars in the yard.
Then luatterwick arose in wrath and went down to see about it. Hs ascertained that the shatters were closed as usual, and as he returned to bed he resolved that Mrs. Butterwick's mother would leave the house for good in the muming or he would. However, he thought be might as well give the almanac plan anotier trial, and setting the sheep in motion, be began to count. Thas time he reached 240, and would probably have got to sleep before the 300th sheep jumped, had nut Mix's new dog in the yard become suddenly homesirk, ard began to express his feelings in a serius of prolouged and exasperating howls.

- Butterwick was indignant. Neglecting the sheep, ho leaped fron the bed and began to bombard M1x's new doy with boots, soap-cups, and every loose article he could lay his hauds on. He hit the animal at last with a plaster bust of Daniel Webster, aud induced the dog to retreat to the stable and thank about home in silence.
It seemed almost ridiculous to resume those sheep again, but he determined to give the alnanac man one wore chance, and so as they began to jump the fence he began to count, and after seemg the sind sheep saiely over, he was gliding gently in the land of dreans, when Mrs. Buttersicis rolled out of bed and fell on the floor with such violence that sho waked the twins and started them crying, while Butterwick's mother-in-law came down stairs four steps at a time to ask if they felt that earthxuake.
The situation was to an ful for words. Butterwick regarded it for a minute with speechless indignation, and then seizing a pillow he went over to the sofa in the back sittrog-room and lay domn on the lounge.
He fell asleep in ten minutes vithout the assistance of the almanac, bathe druamed all night that he was being butted ronnd the exuatur by a Cotswold ram, and he woke in the morning with a tor-
rible headache, and a conviction that sheep are geod enough for wool and chups, but not worth a cent as a narcotic.

The Simapest Trick Yet.-A gentleman who has recently returned from a business trip to Texas, related to ns an instance of sharp practice on the part of a trio of thieves, which we think is entitied to pre-emincnce in the line. Inmediately over one of the banks in yallas is the telegraph office, and a ien days ago two of the operators applied for thein discharge, received it, and left town. On the day followns a well-dressed business appeariug man appeared at the hank with a cheque for $\$ 10,000$ on a well-known Now York banking-house, and desieed at eashed. He brought with ham numervas letters of recommendation from parties with whom the baik had busiuess transacactions, and, so far as surface indications went, everything was all right. But $\$ 10,000$ doliars was a consideralle sum to pay out, even on the very best documents of recommendation, and the bank officers hesitated, wavered, atid finally declined to cash the cheque. But the stranger was importanate. "Gentlemen," said he, "I came to Teras to invest this money in cotton; it is very necessary that this chequo should be cashed, or I will be greatly inconvenienced. Suppose you telegraph to §ew York to this banking honse? Ask them about me; I will pay all expenses." Nothing could be more plausable than this; notling sound more honest. So a dispatch was sent askiug about the strauger and the cheque, and in a short time came the answer, to the eifeet that it was all right, and the Dalliss Bank would coufer a favour on the New York firm by accommodatiog the cottonspeculating friend, and cashing the checque. Still the bank officers were ust satistied, and the dispatch to New York was duplicated. Again the answer was of a similar tenor, ouly yrobably a little more emphasss was added to it. This was satisinctory, and the cheque was duly cabhed. It seems to be the practice of operators to go over their day's work at night briefly by asking the different points to which dispatches have been sent, whethey they have been sent or not. On inquiring of the Newi York operator whether dispatches 13 and 14 had been received, a negative answer was returned. No such dispatches had come to hand, and consequently no answers could have been sent. It was evident that the hank had been swindled, bat how? There wias the mystery. The dispatches had been regularly received, they had come from somewhere, but where from could not be known. The cotton speculator bad disappeared with the funds, and the bank ofticials were at there wits' cuds. In a day or two the inystery was solved. The tuo telegraph operators reierred to alove had gone a few milss out of Dallus, takca possession of an old shatity by the roadside, attached a battery to the wires, and taken the drepatches i:xtended for Xow Yors off. They had been seit peramennged answers. The three were conicieates, and the operaturs linew about the time the begns speculater would enter the bank; and when to attach their instrumeats. lt was an adroit schene, and successfully carried out. The bank has no clue to the swinderes, but has learned a valuable lesson and pad a higin price for tuition.
" Mother is Mever it Homp. -Willic, once my private pupil, wis the son of a very rich man n $\Delta$-, a genercus, good-hearted boy, bright
enough, but the prospects of grent wealth ta away his care for books and love of study. habits were forming, and he was in great dange for he had no lack of spending money, and her, no lack of companions of whom some were $n$ and dissipated. Rut this could not yct le suil Whllic.
One morning as he entercd my room ani has down his looks, he took from his pocket some tiry looking cigars, and handing them to me, sail
"Don't you want a good smoke, s:r?" Thesea very nice, real Havannas."
"No, thank you, Willie," I was himpre to ply, "I am glad I :um not in the haint of sme mg."
"Well," he utded, "I smoked too much le night; and besides, I have no lessons this nu: ing.

How does this happen, Willie?" 1 aste "Tell me where you were and what you dall 4 night.'
"Ho! mothing much," seid ke. "I was oz with the boys at the nety billirrd saloon; but had a splendid time!"
"Wilie," I asked, "did you drink, too?"
" 0, mo, I didn't drink. Sone of the ber drank too much; I only played and smoked much, as I said before."
"Well," I said, "I am glad to hear, Wrub you don't drink, and now tell me, please, truly a frankly, if you think you felt as well this morn -weary and tired, without your lessons-as would had you spent the evering quictly in own pleasant dorae, with your books and with $y$ mother?"
"Ah! to tell the truth," he added, wit stifled sigh, "mother is never home evenings
me to ? me to ? 0 with."
Sad truth ! I could say uo more. But, of wished, for Willic's sake, his mother thought of society azd more of her boy.

## Litcrary Notices.

Caberbelis's Glography.-Mcssis. Reid \& de son, of thie city, have shom us the fith evit of Campbell's Gcography, which has just be issuced. It is a great improwment on, and comp revision of the former alition, paticuiarly the $F$ of the work rolating to the Dominion of Cans Recently formed political divisions, such as K watin, are fuliy described. Changes oi seais Government are roted ; crrors of previous editho correqted; fuller ind more accurate informar given. Statistics, both home and foreigh, h: cridently been corrected from the latest auther reports. The maps in this cdition are by -. 1 tholomew. They are brighter, and there are mone of then than in the former edition. The: of the Hemaspheres, Domimion of Canara, (bita Quebec, satd the Cuited States. are dublup maps.
Remphos, Rectrmpone anj Dialubien, Sons of Tcapcrame, Giond Tcmplars, Calets, This is or rat amd uscful little work, publishci Trronto, Ont., by Mirssrs. Hanter, liose \& and ciite l by Cico. Hiacklin Rose, Esq, R'. G. W.i $S$. of Th, the object of which is to afford ame ment and profit to the wrimbers of Bandis of io temperanco socictics, \&.. The sulections contan: are choice, and show the author's adaptability he work.

## Scientific and Literary．

ho following chronolugical table gives authentic rmation as to printing：－
400．llaying carls wore first printed from cks，in Europe．
440．John Genesteish，surnamed Guterburg， printed from wooden blocks，in alphabetical nuage．
45．John Madenbuch assists Gutenburg and stus in printing．Fanstus ami Peter Schocffer ent moveable metal type，anil the puncheons， lds and matrices for casting them．
462．Faustus printed the lifole copes of which fold as high as 00 crowns al i．：Having re－ pal the price to 30 crowns by the use of the that－jress，he was believed to be in league with devil，and had to explain his art to save his

60．Cicero de Obicias，was printed by Faustus， swon after died．
73．Greek was first vrinted．
74．Printing first pr actuced in Engiand．
75．First almmac 1 intel．
95 ．Wilkin de Worde pronted the first look payer manufactured iv Enghoml．
O9．First geographical work printed in Spain．
01．Inquisition at Veniee tuched，the spreat norledge by he printing press．
23．Hebrer was printed m Gernany．
\＄2．Gacetturs firse published in Venice，and med irom a coin called a gazetta，which was to hear them read．
37．The first book on longitude，writcen by us，was printed in Portucial．
54．First alphabet for diai and damis printed ain．
7．Irinters in laris authovized to wear is as a mark of respect． 6．Book of ！Maphantine Algebra first ed．
BS．English Mercuria，a 1 mophlet printed， of the first attemp，t at periodeal literature．
0n．．First Decimal Arithmetne published in ters
pr．King James＇Bible，the clation now in Fifter seven years of preparatu，a，was printed．
p．Napiors lognathuns patated．
39．Frest prontang in the lintid States，diane mand Mo Mass．
12．First Comle of Pension laws pianter．
11．The Puhir Inthliz，are lis Nir liobert frange the first newnaper；rinted in longland． 85．Frst treatise on Insurance published．
B．Lnston Leries－Lefter，first newspaper in Gi tintes．published by Joha Cimphell，a！ dMan．
96．Dh．Franklin，the Ancacan printer，was in Fixuc．an．
 klelihia，estabished．
w．Neic Lorl Gamitr，first laper printel in Vork．

First printing done in（ieorgia．
Maryland Gaerffe first issued．
Prnting first attempied in South Carrlina．
First panting on jajer made in Caitui
Johnson＇s Dictionary printed in England． Printing in Louisiana．

1797．First priuting in Mississippi．
1799．Mississippi Gazette，printed at Natchez．
1814．Printing in Alabama first attempted．
1898．Nine hundred newspapbers printed in the Unted States．

1836．Thirteen hundred newspapers in the United States and Territories．
187．Over eight thonsond newspapers and peri－ orlicals published m the United stiates and Terri－ tories，and Canada．

## Aphorisms of Pestalozzi．

The mode of famuliarizing a child wath the habit of thmking on what he sees，and speaking after bo has thought，is not to talk muci to，but to enter into conversation with hulu．

Not to aldress to him many words，but to loring him to express himself on the subject．
Not to exhaust the subject，but to question the child about it，and let him find out and correct the answers．

The attention of a chilel is deadened by loug expositions，but roused by animated questions．

Let the questions be short，clear，and intellig－ ible．

Let them excite the child to observe what is before him ；to recollect what he has learned；to master his little stock of knowledge for materials for an answer．
Ninow hmm a certain quality in one thing，and let him find out the same in others．

Tell him that the shape of a ball is called round．

If $j^{\text {ou }}$ bring him to point wat other objects to－ which the same predicament belongs，you have employed him more usefully than by the most per－ fect discourse on rotundity．

In the one instance he won＇d have had to listen and to recollect；in the other，he has＇to oberve and to think．

When I recommenil to a motiner to awoid weary－ ing her chlld by her instractions．I do not wish to eiconrage the notion that instruction should always îake the characier of amusement，or crea of a play．

A chili mast，very early an life，be taught that exertion is moiqpensable for tine attainment of kuowledge．

Buta chall shinuld not be taught to lowk upon cxertion as an evil．

The motive of fear should not lie made a stimalne；it wiil destroy miterest，am！speedily create dicgnet．
laterest in stuciy is the firct thing which a teacher，amolicr，shollde end aror to excite and keep alive．

There are scarcely any circumstances in which a mant of apheation in children docs not proceed from a want of interest．

There are，jerhaps，b：me in mhich a want of interest does bot originate in the morle of teaching adogited ly the tearher．
In saying this $I$ do not mean to make myself the advacate of idleness or irregularities．

But I would suggest that the best means to provent them is to mapta mode of instruction by which the children are less left to themselies－ less thrown upon the unwelcame employment of passise listening－less hershly treated for Iittle and excusable failings，but more roused by ques－ tions，animated by illustrations．inberested and won by kindness．

There is a reciprocal action between the interest which the teacher takes and that which ho communicates.

If he is not, with his whole mind, present at the subiect-if he does not care whether it is understond or not, whether his manner is liked or not-he will never fall of alienating the affections of his pupils and rendering them indifierent to what he says.
But real merest taken in the task of instruction -kind words, and kindor feelings, the expression of the features and the glance of the eye-are never lost upon children.-Brooklyn Journal of Education.

## A Remarkitole Cavern.

Professor Andrews, of this city, and a member of the State Geological Beard, in company with Judge Shlas H. Wright, recently visited the famous Ash Cave. in the soathern part of Hoching County, for the purpose of exploration and archeological research, and were richly rewarded for their long and toilsome trip, in the discoveries made and relics secured.

The country round about Ash Cave as extremely wild and mountainous, almost wholly unfit for agricultural pursuits, as the soil is thin, sterile and covered with ragged rocks and a scraggy gruwth of cvergreens. There are numerous caverns, and subterrancan retreats in the vicinity, but none nearly so large nor remarkable in gloomy and mysterious aspect as Ash Care This is a cavern of enormons dimensions, and receives its name from a large bed of ashes, fully one hundred and twenty five feet in length and from thirty to thirtyfive fect in breadth, which lies at the base of a ragged, rocky and peryendicular chtf, and in im. mediate juxtaposition with the cavern. The cave itself is a mammoth one, although not extending very far back into the bowels of the earth, but where the black, frowning, age-begrimmed rocks loom up at least one hundred and lifty feet high. and project out half that distance from a sheltered place of sufficient dimensions to comfortably accommodate several regiment of sollhers, at the same time makng a pictare of mild sullimity.

The bed of ashes spoken of presented the same appearance sixty five years ago, when this secluded spot was tirst penetrated, that it does now, and how they ever came, and who brought them into existence, is a problem too profonnd for solution by cither scientist or fistorian, being probably the Fork of the mound-buhters, or some other prehisturie race. They are well-protected from the rains and iuclement weather by the orer-topping rocks, and are dry as powder. of a bluish white, lustrous color, and strong in the clements of potassium, which made Ash Cave a great rendezvous for somp-makers in the days of the early settlements.

There are :nany lugnbrious incilients comnected with the placed that have been handed down from generation to gencration, through cobwehby traFition, that have cnshronded the neighborhood in reirdness and gloom, sud it is seldom visited save by the ambitious explorer or reckless pienicker. One old story is to the affect that the cave was the burial place of a tribe of gigantic men, who had existence long prior to Kitting Bull's aucestors, Who disposed of their dead by cremation. What truth there is in this tale is commensarate with the eredulity of its hearess.

Professor Andrews and Judge Wright spent a
whole day with their explorations in and about cave. After a careful cxamination of the surt thoy dug a trench, about four yards long, about two in width, in the middle of the ash, b to see what depth it ran and what its nature bencath the burface. For a foot they dug thro pure ashes, when they reached it strata of abs fourteen inches in thickness, made up of decs and petrified vegetable matter, intermixed $\%$ charcoal, silex, arrowheads, animal bones broken pottery. Immediately under this depp they found the dessicated skeleton of a hurs being. He had been entombed in a sitting post in a mausoleum of sandstone, and surrounde; the thickness of a foot or more with dry ast similiar to those found on the surface. Closthe skeleton, in a hole scooped outt of the gra: was foum over a bushel of tiny black seeds, so what similar to flax, but infinitely smaller. the valuable relics were carefully gathered up preserved, and Professor Andrews has forward quantity of ashes and the unknorm seed to Peabody Institute ia Massachusetts for anal and exhibition.
Further search was made, other oxcavat: male, and although no more skeletons revar: their labors, a number of curious utensils of if bone and clay, were found. Among the bone plements uncarthed were three or four stile ohaped coucerns, instruments probably used in manufacture of clothing, and so forih. cartheoware was foand orly in small fragme and no conception cau be formed of their onf shape or desigu.
Professor Andrews intends to visit Ash again at an early day, and more thoro explore the whole region, and his etforts doubtless result in some very important and able discoveries, especially to geologists archeologists.

## Cimonology of some Kmportance,

Maps, globes and diais were, first invented Anaximander, in the sixth century before Christian era. They were first brought into : land by Bartholomer Columbus, in 1459.
Comedy and tragedy werefirat exhibited Athens, 562 years 13 . C.
Plays were first acted at Rome, 239 B. C.
The first public library was founded at Ater $526 \mathrm{~B} . \mathrm{C}$.

The first public library was founded at lia 16713 . C.

The first nublic horary was founded at is andria, 2st A. 1.

Paper was invented in Cbina, 170 B . C.
Thic caleudar was reformed by Juiins Ciesar; B. C .

Insurance on sinps and merchaudise firs: $r=$ in A. J. 43.

Saddles came into use in the fourti: century

## Horse-shoes made of iron were first made 15

 D. 481 .Surnups were not made till a century latrr. Manutacture of silk brought from Indis. Europe, 55al A. D.
Stone buldings aud glass introduced into $E$ land, 674 A. D.
l'ens ffrst mado of quills, D. A. 635.
Plasaings in courts of judicature introducod D. $75 S$.

The figures of arithmetic brought into Europe the Saracens, A. D. 991.
Paper of cotton rags nurented towards the close the tenth century.
Paper made of huen, in 1300
The dugree of Duetor tirst conferred an Earope at plogna, in 1130 ; in Eughand, 12us.
deca The frst rugular bank was estabished at Teniee,
1157. The bank of (ienoz was established in 07; that of Amsterdan in 1609; England, 1674. Astronomy and geonetry brought iuto England, 230.

Liven first made in England, 1253.
Spectaclos invented, 12S0.
The art of weaving introduced into England, 30.

Masical notes, usce?, invented 1350.
Gunpowder invented at the City of Cologne, by thwartz, 1320.40.
Canon: first used at the siege of Algeziras, 19.

Muskets in use, 1370.
Pistols i: use, 154
Proting invented at Menty, Guttonberg, 1450. Printing introluced into Farland, 14al.
Post-office established in Frouce, 146t; in Engnd, 1581 ; in Gernnny, 1641.
Turbeys and chocolate introluced into England mamerica, in 1529.
Tolacco introlaceal into France by Nicot, Iuto. Frst coach made in Englaud, 1504.
Clocks first made in Englam, 1605.
Potatoes first intrulaced into Ireland, in 1086. The circulatin of the blood discovered by Harvey, 19.

## Odd Titles of old Books.

 I Fan to drise away Flies: a theological treae on Purgatory.
A most Delectable Swect Perfumed Nosegay God's Saints to Smell at.
A Pair of Dellows to bluw off the Dust cast upon in Fry.
A Prope Project to Starile Fouls: Priated ma nd where Self's cry 'd up aud Hall's cryd down.
\& Reapmg-Hook, well temperad, for the stub. mars of the coming Crop: or, Biscuit baked the Uven of Charity, carefulls conserved for the fickens of the Church, the Spurrows of the Spiand the sweet Swallows of Salvation.
A Sigh of Sorrow for the Sinners of Zion, cathed out of a Hole in the Wall of an Earthly ssel, knowa among Men by the Name of Samael Sh (a Quaker who had been intrisnued.)
A ihot aimed at the Dewlis HeallQuarters Fough the Tube of the Camun of the Corenant. Crumbs of Confort for the Chichens of the Coveant.
Eges of Charity, layed by the Chickens of the renant, and boiled with the ilater of Divine ve. Take le and eat.
Hirgh-hecled Shoes for Dwarfs in Holiness,
Hioks and Eyes for Believers' Breeches,
Matcines lighted by the Divine Fire.
pevens ains of a sorrowful soul for sin, or the ven Penitentiai Psalms of the Princcly Prophet vid; whercunto are also added, William Huus' Handial of Honcysuckles, and Divers Godly II Pithy Dittics, now newly angmented.
Spiritual Milk for Babes, drawn out of the casts of both Testaments for their Souls' Nourment: a catechism.

The Bank of Faith.
The Christian Solality; or, Catholic Hive of Bees, sucking the Honey of the Churches' Prayer from the Blossoms of the Word uf Gind, blowno out of the Epistles and Gospels of the Divine Serviee throwhout the year. Collected by the l'uny Bee of all the Hive not worthy to be anmed otherwise than by these Elements of his Name, F. P.
The Ginn of 1 'enitence.
The lunocent luve; or, the Holy Knight: a deceription of the ardors of a saint for the Firgin.
The Shop of the Spiritual Apothecary ; or a collection of passages irom the fathers.

The Sixpennyworth of Divine Spirit.
The Sunfers of Divine Tave.
The Sound of the Trumpet . a work ou the day of judgment.
Th : Snritial Mustard I'ut, to make the Soul Snecze with Derotion.
The Thre Daughters of Job a treatise on patience, fortitule, and pan.
Tohwo battered, and the Pipes shattered about their Wars that idly idolize so loathsome a Vanity, by a Vollcy of huly shot thumered from Mount Helewon: a poem against the use of tolaceo, by Joshua Sylvester.

Vox C.Mis; or, Tews from Heaven: being imaginary cuncersations there between Heary VIII, Edward V1, Prince Henrie, and others.

As an crilume that iron will not oxidize in pure water, a scicutific writer rumarks as follows.Take a pure of clear ice, melt at, and heat to boiling ; aiter briling it a short tume to free it of air, pour it into a small vial containing sorae pieces of hright irm wire, the vial to be quate full and tightly stopped. Place a stanll piece of wire in an open vessel and partially cover it wath water. Set both vessels aside for a few days, when it will be found that the wire in the former is still bright, while that in the other is rusted. This experiment shows that it is the noygen of the air, and not that chemically combuned to form water, which acts upon iron; moreover. experiment has shown, beyond any reasonabie doubt, or question, that nether dry ovygen nor dry carbonic acid will attack irme. To produce the action of common oxilation upha iron, it is necessary that the oxygen be combmed with nitrogen, as it exists in the atmosphere, and in all potable water.

Avimet Glas Woris - The London Academy drans attention to the fact that the most ancient manufa turies cxtant are the glass works at Venice and \urauo. Tbey have umsterraptedly survived oser the period of twelve centuras, before and since St. Benedict, who engaged Venctian artists to furmsh the windows of Tcarnouth Abbey, 1. 1). B. . In the fourteenth ceutnry thas iabric ruased the jealousy of France. In 1663, the Duke of Buckinginam peitioned Charles II, for the renewal of a patent ior making crystal look ing glasses, coach glasses, cte., whicii he clainel to lanc brought, aiter reuch expeuse in finking out the mysters, to as grcat prefection as those made in Yenice, from whence. he sam, they were than forbindua to be cionetca usless wrought and polished.

The obscrvations of M. Jansscu at Nagasaki, Japau, have proved beyoud dispute that a laminous atmosphere surroundes the sun.

## Children's Department.

No one so well as ourselves, who have read the many letters from the children with which we have this month beeu favored, can understand the pleasure they experience on account of our introduction of this deparment once more in the Companion and Teicher. As for ourselves, we are more than pleased with the manner in which our young friends have taken hold of the uoork given them to do. The results are favorable, as all will admit, when we say that we have received no less than 43 lists, containing in the agyregate 53,774 words, or an average of over 1,250 words from each contributor. The largest list contained 3,775 words, and the smallest 1 St . In justice to many of the contributors, we should bay that the Compasion and Teacher was in their hands only a few days before they were required to send in their lists, so that they were necessarily incomplete. Altogether, we are pleased that such was the case, as our labors in examining the lists have been quite as arduous as we could wish. Some, however, have given us unnecessary trouble by sending in their lists unnumbered. Others have sent lists that are very carefully prepared and written, and reflect much credit not ouly upon themselves, but on their teachers. Some have not heeded our adyice to send lists in an unsealed envelope, marked" For the Prcss," and, as a result, they have had to pay threo tuncs as much for postage as they required to have done. Remember that when the above directions are adhered to. the necessary postage is only one cent per $\frac{1}{2} 02$. , instaid of three cents. Some of the lists are written upon no less than six shects of foolscap paper, and the amount of labor required to produce them can only be imagined by those who dud not actaally perform the work. We do not wonder, thereiore, that some say " 1 never was so tired in my life," "I have used ap all my paper," "I thought it would be casy, but found it hard wirk," \&c. "Ochers say "Our teacher gave us the words," "I am very glad you have commesced the Children's Department again." "Nothng will attrast a chluld's attention guicker than a puzzle. A puzle is a thing achich will matie a dunce study, and if $y$ m want lo, makt goul men and zeomen out of chillerrn, gire them things that aill make thom trork, and at prise, tho, if they suceete." These words should be engraved in letters of gold on the wa ls of every home, and should guide parents in their treatment of their chaderen, who may be made to work hard, and willingly, too, and acquire far more knowledge and real beucfrt than ii everything were driven moto them, as in wany cases. Another contributor says "l hope yon will not laugh at my afyl writing: will bet it is the worst you have ever secn." Now, ue waut our young friends to anderstand at once that we do uot intend to hurt their feehngs when we print anything we reccive from them thats is not commendable or correct. When we reproluce anything of this kind, it is because we wish to show the writer and others how it looks in print, so that they ${ }^{\prime \prime}$. guard against mabing the same mistaics ajan. Therc is nothing very krong in the above, as the writer is a mere child and onn be excused for the incorrectness in spelling, and though our young friends should not adopt the manner of specch used only by gamblers and low-bred poople, we know that in this case no harnt roas inecended. We trast
that when we have occasion to copy other and haps greater mistakes, our young contributors $n$ not feel cross and say "He's real mean, and 1 never write to him again." That we should; gret, especially as such an action would debar writor from deriving any future benefit from Department.
In last number we announced that we should: quire our friends to write us a letter this mon: and we hope hundreds will do so. We have oz to say, however, that we expect all to do as $\pi$ as they can. If any letter shows that the wni did not use overy endeavor to make it a good od we will not read it or place it in competitia Write on any subject you choose this time--ut long letter, but a short one. Nay what you ha to say, and then stop. Nake your stateme complete and do not rum them into each oth Let each idea stand in a sentence by itself, in simplest form. You will soon enough learn to focompound sentences. Begin each sentence whe capital letter, but do not fall minto tho absurd has of commencing cvery line m the same way. Ple: observe these drections carefully, and we whil have many bad letters to look over. A few of best letters wo wll publish in our next numb and we will also publish the worst one, without ; name of the writer.
We are sorry that only threc will be able to cure prizas, as many more already deserve it. member that though we shall be glad to rece letters irom those who have not sent us lists words, only those will be allowed to compete the prizes offered. We will, however, give Compliof and Teichibr free for one year, it out premium, to the boy or girl who has not writien to us, who wall this month send us the letter. This will give all a chauce to secure or the four prizes now ofered.
In conclusion, we must remind all to forns contribations before the 15th, as we go to press the 20th. Competitors must state age, and if of echol ago, they must be in actual attendanc the time of writing at some school or college. your tencher is good matured, as he showld be, sty hin your letter beiore sending it to us, and if says it wall do, send at along.
We promise something mure attractise after $X$ : Years in the way of quales, Ec., and if the inte: is contmued in this department, will somet it print new Dialugues, Readings, \&e., suitalde school entertainments, \&c.
We hope to see you again before New Years, meantimo we wish you all $A$ Merry Christrnas.

## A Hig Prize.

4 copy oi Webster's Nee Unabridgrd Diction shouht be placelin overy school hibrary. scherd has uo lihrary, the dictionary is a comph ons in iteelf. It is bound in leather, and cont: 1,S40 pages, 3,000 illustrations, and over 114, wurds. The publisher's price for it is 812 , but will send it to any boy or girl who sends us on' for the Companios AD Teacrer to the value \&40. Every subscriber wall receive a preminm, the one who gets up the club will get a dicturis which he may keep himself, or present to the seh. and thes memorialize himsetf. A club can eas ine raised in any School Section in Canada. will send as the first club?

| OUR ADVERTISING RATES: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
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| Etimum | 3 3 |  | 1+800 | - 36 |
| wime | - |  | 37 4 45000 | - 50 | There will be twele hates in an meh, cight inelues a column, and two culumas ma page. When atmets are made, accomits whll we rendered carterly wifte: the hirst misertion, and payment fill be requiral withm thiriy doys.

## OUR SUBSCRIPTION RATES.

or the Cominion me suar amo me premian chromn, pust pand, to iay whiress ..... . .s $\$ 150$ or one ir more extrab hrumus, wesch pust pand 90 or the Conrasiux one year.anicue premam crayon, post paid, to ury address.
br one or mure catra crayons, each post pand
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or a club of 5 we give 10 per ceat. off above rates

Those who can get up larger clubs than the fore may write to uy for sipecid terms and dis. unts.
Ir every case the premium chromos aml crayons Il be sent prepaid, by manl or express, to the ficriber or the person getting up the club.

## OUR LIST OF PREMIUMS.

The premiums we now offer to subseribers are as lows.-
(1.) "The Offer." "(1..)"Accepted.", (3.) "Love Is a Thread." (4.) "Yes or No." (í). "Tho scent from the Cross." Ant (6.) "Immacule

ciromos.
(1.) "Lake Magriore." (2.) The Bnoe of Bethiem. (3.) "Isle oi Mam." (4.) "Isteni Whght." )"Beatruce de ('ench. And (6.) "The Vestal Fon. Size of Liws. 1 and ${ }^{2}, 1 \gamma \times 2 \overline{5} ; 8$ and 4 , ${ }_{2}^{24}$; aml - and 6 , $24 . x 30$ inches.

## CANVASSERS WANTED.

We are now prepared to rewice applications at ayy of our readers, or thee fricads, who have sare time to canaras their fown or townshy orwghly. We do nat care whether our agents eur...l or mby a put of the ty the, so lous as $y$ naine a thumblamwass of the terntory they (icitake to worh, aurd for which wo will give firn the coulutwe right We garantec gowd gow tu any sweh: and are min prepred to give

(i. membin, -1st, that in the (hard tumes a cheaj) Flle will sell reahly, while :1me exjensive ones II remam unselil: mid, 2nil, that those who Hy first will receive the choice of territory. diress,

CC IPANION PUBLISHING CO.,
$\dot{\theta} 27$ Richmond-St, London, Ont.

## Publishers' Department.

 (nany of then, wo are sorry to say, from teachers) abroit thes Nio, that we are compelled to repeat that no Octuln. numbre wos printed. We stated in september No. that only two mumbers would be puted beture New Years, aut in last number we sand that No. 9 (the sepot. No.) completel the carreat whanes of the cempanions ame "On tarn" Teacher," and that the Noisember No, was the first of a new whlume. In the tace of this, howere, so many have staphlly written to us almut in internachate uander, that we hate gaven nor rill. We fim, the, that the late publishers of tle "Ontarsu Teader hase heen sumbarly anneyol, ai they lase funcricul the followng for publuation -" Numeruns mumries have reached ne m rearl to the Octoker No. It was distactly stated in the Nept. No. of the "Ontario Feacher" that hat twi) numbers ui the "Compamon and TCacher" would be issued this year, lat that all sulisermin's $t_{1}$, the "Ont.ati" Teacher,' who had mid in ahbate, would receive the fall number of issues for which they hatd pand. In accordanco with the arrangement there was no October No., and only the numbers for November and December will be issued. Bat those who patd to Decemler will receive the Nor., Dec., and Jan. Nos., and sumlarly mall other culses.'

## Cloh Ratec __There are so mauy different

 publications that it is almost impoossible to get even a suall club of any particular pubicatim in many small towns, or even large ones. Une plan is this: We get a few hundred subscribere, here and there, all weer the eonntry, and upon the whole receve a very large list for most of the papers we phace on our hist. We, therefure, recenve from the Publishers their very best terms, aud can actually aflord to give subsurbers better terms than the publishers themselves. Anuther advantage to subscribers is, that when onderng three or four different periodicals, as many do, they have only got to write one letter if thay miler through us, anl, besides, they save the prosinge and regrostration fee on two or threo letturs. We mvite all to examine our list on tifth page of cover, and if satiotical with our mates, to onder through es.
## 

 been made cheerful hy the nitroluction of a few or all oi the nembers philnshew of the "lakeside Iibrary," which, whim the last two years, has atimait in mum larty. The work of the best athore are reproduceil at a triflug cost m malimigel firm. Wc have inen fintunate 10 mahn: arrangements with the pulinthers wherely we can furaish any namior of ther puldeations as fremmans to those wion subscribe thren:gh us for any wi the f"pular Ameriean or (anadi.m joumals. If cur readers will take the trualle to mathe ear tenns kinown to their fronds, we shall he alie to seeure much larger lists for each papre, nad can conmand and oftion better rates for our next season. Sce terms on nifth page of cover, aud subserive early, as it talics a few weeks to till orders.
## Three Good Reasons

 Combiviov Ayd Trwher: 1st It is printed in smaller type ami contans a good deal more reading mattor than the Onfario Teacher. 2nd. We give a handsome premium to each subscriber. 3rd. It is offered to subscribers for less money. We invite your co-operation on account of the unsurpassed liherality of our offer, anl, likewise, from the mert and sulul work of the publication itself, its ficedom from all trashy rcduling, and avowed amm to improve, lemelit and instruct Now is the tame to sulnseribe, letting juur sulsceription date irom the first number.Specimen Conies. ...-. Mnyy Teachers will resample, and will please understand it as an invitation to subseribe. Teachers can create a goul deal of interest anong their pupils if they whil get up a clab amb enourage them to take part in the competition for praes in the Chililen's Departnent. Children like to see their names in pront, and a healthy rivalry letwecn schuols is always a means of dong good. A chals can he secured in any section ly a hittle cxertion. We gre $20 \%$ oft on a club of 20 subscrihers, or fur a club worth $\$ 40.00$ at our rogular rates, we give a cupy of Webster's New Unabridged Dictionary.
Onf Preanims.
Our aim is to carry light and culture into every house in the lami. Our missum is tir presuint tu the people that whel is beautiful mart and nature. Every subseriber of the Cumbisius asi 'leacher will receive one of "hir leautiful gremanas as follows :
Crayons. -"The Offes," "Aceepted," "Xes or No," "Love is as a Threan," "The Veseent from the Cross," "Immaculee Coneption."

Chrumu. - "Lake Masgure," "Babe of Bethehem," "Isle of Jran," "Isle of Wyght," "Bentrice," and "Vestal Virgin."
Tisitiun Cands- - ir mayy of aur smberibers mo, we will send in its phace as a premium 160 Fisitne Carals, neatly mated with name and address, ur name alone, as preferred. We will not, however, bund oursches to till card orders in less than ten days after the oriter comes mon our hands, as we ate nut always prepared to do the work: If any subscribers want both premmms, we will furmish the cards at 90 cents fur 100 , sume as a chromo.

Tidy Madfginfl.- Elsch here in this number of this cur new premiam Chrumo, whese beanty will win for it a place in thuusands of Camadian lomes this winter. As it can spuak for itself more effectually than we cara describe it, we whl only say that if any one who may sulseribe for the Cumravioy and roceive thas premilum, is not satisfied with the same, we will, on reccipt of the chroms, return him hes moncy.
Comunundatory
We have not room in this issne to give place to even a fer of the numerous commenatory notices with which the Companion anis Teachen has been favored by the "press" in every part of Camada, is well as by Inspectors, Teachers and sulsecribers everywhere. We hope to be able to make the present and future issues of our paper still more worthy of their commendation.

Snbscribe. Many aro making a mistate by sending in their subseriptions. Our new volume began with last number, and unless otherwise instructed, we will dato all subscriptions from the Norember mumber so that the volume may be complete in each subscriber's hands.
Renew. Renerw. $\qquad$ I fow hundred subscriptions expire with this mumber, and we hope all are sufficiently pleased with our paper to subscribe again. Don't wat until the next number is published. Renew at once, as on the 20th we revise our subscription list, and strike off all that have not done so.

## When Subscriptions Expire.--

 The Nov. and Dee. mumbers of thes paper, as we alrealy annumed, wall take the pace of the three smaller numbers of "Our Home Companion," whe't would have heon published had our cnlarge. ment nut been made until New lears, as promised when all our did sulbscribers were taken. Honm Cumbantus subseriptiuns wall therefore expire at the same time they would have done had no en largement been mate untal New lears. Not so hunceer, with the "Ontarno 'leather" subseribers. Each subscription is dated forvaad one month. Thus those wheh were to expire in March wil now expire in April, and so on. We trust the will le intellugible and sithsfactory to all.Cheap Reading.- We thouru in of fin doing as much as ourselves to provide chear reaching for the people. We thas month add a consulerable mumber of the must prombar weeklies pubhshal in Canada, and a glance at our ※lub LIFT will show any one that we present an oppor tunty sellom equallul tup procure the best hatera. ture of the day. We trust our realers wall make our offer known to all their fricuds, and that we may be favored with a fair share of their patronage Index to Ontario Teacher.
We have preparel, and will present with this No. $t_{0}$ the suliscribers of the "Ontario Teaclaer," an index to Volume $\bar{y}$, containing ane numbers, so that those who wish to have the same bound may do se. A "title page" also acompanes the medex.

Imerroit Commertall Advertiser.-We invite particular attention to this periodical on our Club List, because on the 13th of thas month (December) a distributiom of 512,500 whll we male anong 25, . 000 suliserilers, or a propertimate amount of that mumber have not salsicribed. The highest prize nfficed is si, 000 m cialh, aud variults subis dewn to El will complete the ammunt. It is a paper we can recommend, and those who subseribe through us lefore the loth inst., will for $\$ 2$ receive the paper free for mic year, a pramiam ticket, and three numters of the "Iakesude Labrary." These distribnthons inare been made ammally for 13 years, to the umeral satefaction of its suluscribers.

Puetver Wanten - A teacher (or any gentre. man of hiterary talent and active lusiness requirements) may hear of a desirable partuership in a first-class paying husiness, where only a moderato iurcstment of canital is requirel, by aduressing "A. B. X." London P. O., Ontario ; or care of Companion Pijblishlig Companis.

