## TEACHER'S COLUMN.

 Devoted to the Interests of thProvincial Teachers.

 1. If any three of the four numbers
that form the Divisor, Dividend. Quotient and Remainder be given, show how to
find the fourth. The Quotient is six find the fourth. The Quotient is six
times the Divisor and the Divisor is six
times the remainger and the the to times the remainarer, and the three to-
gether amount to 516, find the Dividena. gether amount to 516 , find the Dividend.
2. Deduce a rule for finding the $\mathrm{L} . \mathrm{C}$. M. of Deduce a rule for finding the L. L. C M. of any given number and
the L. C.M. of the nine digits. 3. How many rails will enclose a
3. Held 23023 feet long by 17765 feet wide, the fence being straight and six rails
high, the rails all of high, the rails all of equal len
the longest that can be used?
4. Add the lingest that can be used?
4. Add $\frac{\xi, 9-10 \text {, and } 15-16 \text { and give the }}{\text { reasons for each step. }}$. reasons for each step.
Simplity $\frac{1}{2+\frac{3}{4+5.6}} \times \frac{48624}{4147} \div\left(1 \frac{23}{23}-\frac{23}{38}\right)$ 5. (a) Divide three thousand and
ninety-six hundreds of thousandths by
seventy-two millionths and explain the seventy-two millionths and explain the
reasuns for each step.
(b) How many yards of matting 2.4 feet broad will cover a a floor that is 27.3 feet long and 20.16 feet broad?
6. Explain clearly and illust difference between Simpie and Compound terest in two years a sum of money
would amount to the same sum mas. per cent Compound Interest. Natural Mistory. Time, 1 hr
CLass II

1. Mention the more commonly occur 1. Mention the more commonly occur-
ring non-metallic minerals. Describe
them briefly, and state how far they are capable of useful application.
2. From what 2. From what sources do we derive our
chief supply of the following substances: chief supply of the following substances:
Irnn, Chalk, Mineral Paint, Plaster, Sul-
phur, Lime, Salt, Phosphate, Gold. phur, Lime, Salt, Phosphate, Gold.
3 , "The plant exists ready-formed
the the seed." Illustrate this statement.
3. What special features of Leaf, Flowe or Fruit characterize the following plants:
Buttercup, Pea, Aster, Mint and Pine? Buttercup, Pea, Aster, Mint and Pine?
4. The Onion, the Potato and the Tur nip are often, spoken of as "root-crops.
Are they all equally entitled to the de Are they all equally entitled to the de-
signation ot roots. Give reasons for your answer.
5. Compar
verse section of Reech or mance of a tranof Indian corn. What other features of
difierence in difference, in leaf or flower, accompany
those of their stems? those of their stems?
6. How are plants nourished before and
atter appearing above ground? after appearing above ground?
E. Compare the following animals as to general structure vivz: Man, Monkey
Lion, Whale, Bat, Pigeon, Frog, Beetle Lion, Whale, Bat, Pigeon, Frog, Beetle
Oyster and Star fish and deduce therefrom a scheme for their classification.
7. What functions do the Shell, Nerves Brains, Tendons and Joints of animals
respectively serve? respectively serve?
Nork- Five questions constitute a full
paper.
 1. Describe the physical features and
present condition of either the island of Cape Breton, Prince Edward Island, the Annapolis valley, or the valley of the
St. John. sel like the Viking ship in sailing from Norway to the World's Fair at Chicago, mentioning particularly the artificial
waterways through which she must waterways through which she must pass;
or, trace a railway journey from St. John to Chicago by C. P. R. and connecting lines, confining atiention to one of the following poiuts: (a) the engineering
difficulcies of the road; (b) the general character of the country along the line. 3. Where are the following places, and for what noted : Cairo, Moscow, Honolulu, Tokio, Birmingham, Vancouver, Luck-
now, Quito, Melbourne, Berne? now, Quiv, much of the continent of Afric lies south of the equator? 5. Where is the Tropic of Cancer, and
how is 1 ts position determined? how is its position determined?

## America:

 America: The Examiner will allowNorte-To Part
marks for Pand 30 for marks for Part 1 and 30 for Part 2. English and Canadlan History.
CL.ass II AND III.
Time, $1 \frac{1}{2}$ 1. Under what circumstances did the death of the following sovereigns occur Harold, William II., Charles I., Edward II:, Henry IV.
2. Explain th
2. Exp Wallace, Simon of Montford, Cardina Wolsey, John of Grant, Lady Jane Gray. 3. By what steps did Richard II. seek was he opposed and with what results? 4. State what you know of the following: Canterbury Tales, Introduction of Printing, Abolition of Slavery, Gunpowder Treason.
 6.
ing
each
in oach case:" " " what results followed in ach case: "Battle of the Standard," Ban Waterloo, Quebec, Yorktown. Part II.-CAnadins. 1. State what you know of the earlies
settlement of New Brunswick. When,
and under what circumstances did it beand under what circumstances did it be-
come a part of Canada"?
2. Give a summary of the events which occurred along the Niagara frontier in the
spring of 1813 . 3. Describe the methods by which the
laws of the Province are (1) made, and aws of the Province are (1) made, an
4. Desecribe any two of the vents. Exploration of the Mississippi ounding of Halifax, Battle of TiconLeoga, Bat
5. What several places have successive
been the seat of government for Canada Explain the causes of such transffr.
6. State what you know of the 6. State what you know of the follow ing
Clergy Peeserves Rebellion Losses Bill, he "Five Nations," Aroostook War, Nontgomery's Attack on Quebec. Nors.-Four questions in Part
four in part II make a fuil paper. III.

SIr Qusstrovs Time, 1 hr 30 min . [Exhibit the operations clearly. Ques tions in which the proof or explanation is
required, are of greater value than the ofhers. The explanation is reckoned of ation, but the unitary method is held to include both.]

1. A hogshead
 20 gals. cost $\$ 40$. Twenty gallons leake remainder be sold in order to gain 20 per cent?
2. $W$
a floor afloor, $15 \mathrm{ft}$.6 in . long and $12 \mathrm{ft}$.6 in
wide, wide, cost at $\$ 2.4$
being 30 in. wide
3. $A$ and $B$ together can do a piece of
work in 3 days. $A$ alone can do it in 5 work in 3 days. A alone can do it in
days. In what time could B do it? Ex-
plain anitary method.
4. Find the greatest common measure
of 273 and 2808 without factoring, and of 273 and 2808 without factoring, an
prove that the result must be the $g$. . $m$. 5. Reduce 3-16 to a decimal, and divide
he result by four thousand five hundre and ninety-six and eighty-seven tho sand and ninety-four millionths until the
quotient contains three digits. Explai quotient contains three digits. Explai
the method by which you determine
the place of the point in the quotient. 6. Find the difference in pints betwe 7. $\$ 56.25$. Fredericton, June 12, 1892 One year after date, for value receiyed,
promise to pay John Smith, or orde fifty-six and $25-100$ dollars, with interes Endorsement June 12, 1892, \$40.
What was due on Dec. 15, 1893? What was due on Dec. 15, 1893?
Geography. III. Timeograply. $\quad$ Time, 1 hr 30 min 1. Define isthm
5. Explain the cause of day and night
3: Name the cosst 3. Name the coast waters, islands and St. Stephen to Campbellton, or the friver
nd to and towns passed in a ra
between the same points.
Mention the chief towns on the St
Mawronce and the Geat Lawrence and the Great Lakes; or, the
principal seaports of Great Britain and

## reland. Part II.

 5. Draw a map of New Brunswick, Note, The examiner will allowmarks for Part I. and 30 for Part II. III. Useful Knowledge. Time, 1 hr .

1. What are the different kinds of coth, linen, wool and silk? Where is silk chiefly manufactur
naterial obtained?
2. From what sources are the following ommon things derived: Glass, parch-
nent, steel, ink, paper? 3. State what you know about cork 4. Name the principal minerals foun hey are eveverally applied.
3. Describe as is 5. Describe as if to a class in the third
reader, the cause of the asser seader, the cause of the seasons.
Grammer and Analysis. 1. Give the general and particular $1 \frac{1}{2}$ hrs. alysis of:-
"I lived in would come
To these my lists
these my lists with him whom best
you loved;
And there, poor
blue eyes,
Truest eyes that
Heaven,
Behold me overturn and trample on him.
Then, had you cried, or knell, or pray'd
to me,
I should not less have killd him."
Parse the italicisen worl is his selec
4. Give the deri vation of: Belfry, daisy
5. dandelion, birge, orchard, constable surgeon, sexton.
6. What is Syntax, Concord? State and Etyustrology, rule that determines the number of the verb when its subject is a collective noun. 5. State the chief sources of the English
vocalialary, and mention the different
periods at whl h worda of Latin origin
were introduced. Give examples of
are words introduced at each of these periods.
7. To what languages do we owe the 6. To what languages do we owe the
following words: Yacht, potato, alligato,
tody, calico, brigade, bivouac, jubilee. coddy, calico, brigade, bivouac, jubilee.
8. State as precisely as you can the 7. State as precisely as you can the
meaning of the following suffixes: Dom en, ex, hood, ing, and g
words formed by them.

Concluded in next issue.
How to Make a willoo - the Wisp.
of course you know that a real Will-o'. or course you know that a real will-0.
the wisp is the effect of hydrocarbon gas generated by decomposing organic mat-
ter in a marsh, and in a state of combustion. But did you know that you could
prouuce this phenomenon in your own proucuce this phenomenon in your own
homes? This is how it is done. Take an homes? This is how it is done. Take an
open-mouthed glass jar and place some
baking open-mouthed glass jar and place some
baking-sola in the bottom, over which
pure pour \& little diluted sulphuric acid,
muriatic acid, or strong vinegar. Now muriatic acid, or strong vinegar. Now
lower a lighted candle into, the gas until
it stoes ont, leaving the top of the flame
still burning upon the surface of the in visible gas. TTh flames will be fed by
the gases coming from the the gases coming from the smouldering
wick. This Will-o-'the-wisp lasts but a wick. This Will-o'-the-wisp lasts but a
short time, but it may be reproduced by
raising the candle until the wick relights. short time, but it may be reproduced by
raising the cande until the wick relights,
then lowering it again. In order to make a success of this experiment
air of the room is very still.

 said $A b$, triumphantly.


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