Question Drawer.

QUESTIONS.

Will Mental Arithmetic be required at July Entrance Examinations?   M. B.

Please send me a list of the work necessary for candidates preparing for the Entrance Examinations.   K. A. L.

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1. What is the highest rate Trustees can charge per month for non-resident pupils?

2. How must a teacher, who wishes to discontinue payment to the Superannuation Fund, proceed to get back the part of his subscription allowed him?   TEACHER.

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1. Will you kindly inform me, through the columns of your JOURNAL, if first-class honors obtained in the first year examination of a Canadian university is equivalent to the non-professional examination for first-class B certificate?

2. If so, is the holder of such honors required to pass the professional examination for a second-class certificate, before presenting himself for the first-class examination?   A SUBSCRIBER.

What amount of work in Drawing is required of pupils preparing for the Entrance Examinations? Do they require both series of cards, or only the first series? What blank-books are the best to be submitted for inspection at the examination? If Walter Smith's, how many are required?   J. S. McCUTCHEON.

ANSWERS.

M. B.—Yes.

K. A. L.—The work necessary for candidates preparing for the Entrance Examination will be found in the SCHOOL JOURNAL, No. 6, Feb. 12, 1885.

TEACHER.—1. Fifty cents.
2. Write to the Secretary of the Department of Education for a blank form of application.

A SUBSCRIBER.—1. Yes, first-class honors taken in any one of the departments of Mathematics, Classics, or Modern Languages, will be taken as an equivalent.
2. Yes, only graduates in Arts who have had experience in teaching are admitted to the examination for first-class certificates without having previously taken second and third class certificates.

J. S. McCUTCHEON.—The new Drawing Books published by the Canada Publishing Company, Parts I. and II. (10 cents each), contain all that is necessary (including blank examples) for entrance next July. Pupils who do not use these can be prepared by a teacher using Walter Smith's Primary Manual.

In answer to a question asked in the JOURNAL of April 9th, concerning an alleged demonstration of a method of trisecting a plane rectilineal angle by Elementary Geometry alone, we are informed that such an attempt was made by Mr. Doyle, and also by another Canadian mathematician, but that both attempts are demonstrably unsuccessful. If our correspondent is anxious to procure the papers, we can probably give him an address to which to apply

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Several questions in previous numbers, relating to points in English Grammar, have not been answered. Where are our grammatical experts?

Answer to question of February 5th.—

A could do the work in 9 days, his wages $10 a day.

$x = B$'s wages per day, $y = $ time over the five days they should work, supposing C had not come.

$x(5+y) = B$'s wages.

$10(5+y) = A$'s wages.

$x(5+y) - 5x = 3.75.$

$x(5+y) + 50 + 10y = 90.$

From 1st equation $xy = 3\frac{3}{4}$

$2y = 7\frac{1}{2}$

$\dfrac{x}{}$

Subtract $5x + 10y = 36\frac{1}{4}$

$x + 2y = 7\frac{1}{4}$

$x + 7\frac{1}{4} = 7\frac{1}{4}$

$\dfrac{x}{}$

$x^2 + \frac{15}{} = \frac{29}{4}$

$x^2 - \frac{29}{4}x = \frac{15}{}$

$x - \frac{29}{8} = \sqrt{-\frac{15}{4} + (\frac{29}{8})^2}$

$x = \frac{29}{8} \pm \frac{19}{8} = 6$ $90 \div 6 = 15$ times B could do the work.

Taking 90 days for A to do it, his wages is a day:

$x(5+y) - 5x = 3.75$

$x(5+y) + 5 + y = 90$

$x - \frac{65}{} = \sqrt{-\frac{3}{4} + (\frac{65}{})^2}$

$x = 8\frac{1}{3} \pm 8$ nearly $90 \div 16\frac{1}{3} = 5\frac{75}{}$

JOHN MOSER.

Literary Review.

(Any book reviewed in this column may be ordered through the office of the CANADA SCHOOL JOURNAL.*)*

THE NORTH AMERICAN REVIEW for May, has the following attractive table of Contents.

I. HAS CHRISTIANITY BENEFITTED WOMAN? By Elizabeth Cady Stanton the Right Rev. J. L. Spalding, D.D., Bishop of Peoria

II. INDUSTRIAL CO-OPERATION. By David Dudley Field.

III. SUCCESS IN FICTION. By James Payn.

IV. WHAT IS ACADEMIC FREEDOM? By Prof. Andrew F. West.

V. THE NEW BUDDHA. By Robert Buchanan.

VI. WHY CRIME IS INCREASING. By J. L. Pickard, LL.D., President of the State University of Iowa.

VII. SUPERSTITION IN ENGLISH LIFE. By the Rev. T. F. Thiselton Dyer.

VIII. COMMENTS.

OUR LITTLE FOLKS AND NURSERY   This delightful journal is at hand again, filled with its usual choice collection of captivating pictures and stories for the little ones.

MADAM HOW AND LADY WHY, OR FIRST LESSONS IN EARTH LORE FOR CHILDREN, by Charles Kingsley   This charming little work comes to us as one of the series of "Globe Readings from Standard Authors." The title of the book and the reputation of the author are sufficient recommendation in themselves, while the neat binding, clear type and appropriate illustrations add much to its attractiveness. Every boy and girl would profit by the reading. 60 cents, Williamson & Co., 5 King St., West, Toronto.

LATINE for March is late in coming to hand, but is an excellent number. The first Article, a Latin Pastoral in immitation of Virgil's Eclogues, by Thomas J. Garson, is especially noteworthy. And the beautiful Latin Hymn, beginning "Pone Luctum, Magdalena," by an unknown author, with a Greek version and an English Paraphrase is very interesting. So is "From Old Rome," a Teacher's Letter to his "Pupils," adapted from the German. The Latin ode by Professor Wilson, King's College, Nova Scotia, has quite a Horatian ring.

THE LIBRARY MAGAZINE for May, is an unusually large and interesting number. It contains 160 pages and amongst about forty articles, reproduced are such attractive ones as, "Nature's Organic Riddle," by St. George Mivart; "The Organization of Democracy," by Goldwin Smith; "Co operation in England," by Thomas Hughes, "Gone Over," by Jean Ingelow; etc., etc.

THE MANITOBA AND NORTH-WEST MONTHLY, is full of interesting and useful information in regard to the resources of the great North-West.

ST. NICHOLAS for May, contains almost more than its usual wealth of fine illustration and captivating story. "The Tricycle of the Future," by Frank R. Stockton, contains an ideal tricycle on a mammoth scale which may be a prophecy. "His One Fault," by J. T. Trowbridge, is continued. "Bathmenda" (from the French) of Florian, by H. H. (Helen Jackson), and "The Brownies and the Spinning Wheel," by Palmer Cox, are illustrated poems which will ravish the eyes and ears of the little folks. The whole make up of the number is fully up to the reputation of this prince of Magazines for the young.