THE EDUCATIONAL REVIEW.

3. What changes have taken place in the seat of Goverment of Canada, and for what reasons? Mention facts of interest in connection with these changes.

4. Explain the significance of the following terms: - Executive, Legislative Council, Cabinet, Prime Minister, Civil List, Reciprocity Treaty, Governor in Council.

5. Give some idea of the gradual development of the means of internal communication in Canada.

6. Summarize the condition of Canada during the second period of its history, 1600-1760.

7. State what you know of the earliest settlement of New Brunswick. When was it first made a distinct Province? Who was its first Governor, and when was Fredericton made its Capital?

8. Explain the connection of the following prominent personages with Canadian history:—Cartier, Pontiac, Argall, Lord Elgin, Bigot, General Arnold, La Tour, Montcalm.

N. B.-Six Questions make a full paper,

ARITHMETIC.

Exhibit the work.

1. Let *I*—interest. *P*—principal, *r*—rate per unit, and *t*—time in years, then *I*—*Prt*. From this equation deduce the formulæ by means of which may be solved all the possible cases that can arise in Simple Interest.

2. Frame and solve suitable examples to illustrate three of the cases referred to above.

3. (1) Give the formula for finding the amount of sum placed at compound interest for any number of years. (2) Find the amount of \$12,000 for 16 years, compound interest, at 5 per cent. per annum. (Use contracted method).

4. Show by means of an example the difference between true and bank discount.

5. A man devotes 12 of his income to charitable purpose, 25 for the education of his children, 45 for household expenses, and saves the remainder, which is \$350.50; what is his income?

6. Remitted \$1,500 to my agent, with instructions to deduct his commission at 2 per cent., and invest the balance in flour. What is his commission, and how many bbls. of flour will he

5. Write a short biographical description of some historical personage, or a criticism on some poem with which you are familiar.

ALGEBRA.

1. From the following equations find the xalue of x:

(1)
$$\frac{x+1}{3} - \frac{3x+1}{5} = x-2.$$

(2) $\frac{2x-5}{6} + \frac{6x+3}{4} = 5x - 17\frac{1}{2}.$
(3) $\frac{1-2x}{3} - \frac{4-5x}{6} + \frac{1}{4\frac{3}{2}} = 0.$

2. Find a number which, when multiplied by 4, is as much above 35 as it was originally below it.

The difference of two numbers is 20, and one-half of one of the numbers is equal to one-fifth of the other. Find them.
 Resolve the following expressions into factors: --

(1)
$$x^2 + 11x + 30$$
.

(2)
$$x^2 + 13xy + 42y^2$$
.

5. Apply formulæ to work the following:-

(1)
$$(x + y + z)^2$$
.

2)
$$(p-q+v-s)^2$$
. Exhibit the work.

6. How is one power of a number divided by another power of the same number?

Show by this rule that $x^0 = 1$.

GEOMETRY.

Read this Paper before commencing the work.

1. If one side of a triangle be produced, the exterior angle is greater than either of the interior opposite angles.

2. If a straight line, falling upon two other straight lines, make the exterior angle equal to the interior and opposite upon the same side of the line, or make the interior angles upon the same side together equal to two right angles, the two straight lines are parallel to one another.

purchase at \$6.50 per bbl.?

7. Extract the cube root of 36 to three places of decimals.

8. (1) What is the primary unit in the metric system? (2) Name the other primary units based upon it. (3) Find the cost of polishing a surface 3 metres, 6 decimetres long, and 2 metres, 6 decimetres wide, at \$2.50 per sq. metre.

COMPOSITION.

1. Express in as fitting words as you can the thought in the following passage:—

'In the woods, A lone enthusiast, and among the fields. Itinerant in his labour, he had passed The better portion of his time; and there Spontaneously had his affections thriven Amid the bounties of the year, the peace And liberty of nature; there he kept In solitude and solitary thought His mind in a just equipoise of love."

2. Scan the last four lines of the foregoing passage.

3. Frame sentences to illustrate the shade of meaning between each pair of the following synonyms:—

Instruction, Education. Reason, Intellect. Jeopardy, Danger. Aid, Help. Obvious, Clear. Imagination, Fancy.

4. Name the chief figures of speech, and give an example of each.

3. Prove that if the opposite angles of a quadrilateral be equal the quadrilateral is a parallelogram.

4. If the square described upon one of the sides of a triangle be equal to the squares described upon the other two sides of it, the angle contained by those two sides is a right angle.

5 If a straight line be divided into any two parts, the square of the whole line is equal to the squares on the two parts together, with twice the rectangle contained by the parts.

Female Candidates for Class I. will omit the 1st and 4th of the foregoing Questions, and work the following instead:-

(a) Equal chords in a circle are equally distant from the centre; and conversely, those which are equally distant from the centre are equal to one another.

(b) In a given circle to inscribe a triangle, equiangular to a given triangle.

N. B.—When Female Candidates have worked this paper, they will receive, on application, the paper set to Male Candidates, and will receive credit for any work thereon, provided the work is in advance of Book IV.

GEOMETRY.

1. If any two points be taken in the circumference of a circle, the straight line, which joins them, must fall within the circle.

2. The angle in the same segment of a circle are equal to one another.

3. Prove that if one side of a quadrilateral figure inscribed in a circle be produced, the exterior angle is equal to the opposite angle of the quadrilateral.