

ARITHMETICAL PROBLEMS.

1. If a certain weight of gold be worth 16 times the same weight of silver, and the weights of equal volumes of silver and gold be as 8:103, find the value of a cube of gold which, were it silver, would be worth \$66 664.

Ans. \$1400.

2. \$350. Feb. 15th, 1884.

Three months after date I promise to pay Messrs. Smith & Fudger, Toronto, the sum of \$350 with interest at 6·083 per cent. for value received.

(Signed). JOHN REID.

How much must John Reid pay to discharge this note when due?

Ans. \$355 25.

3. On March 1st, 1884, John Smith sold James Bruce a horse for \$225, and took his note for the same at 3 months. He then gets this note discounted at the bank at 8½ per cent., and finds he has cleared \$10 25 by the sale. What value did John Smith place on his horse?

Ans. \$210·18½.

4. A building 30 feet by 20 feet is to be covered with lead, so that the roof shall be ⅓ of the flat. Find the cost, supposing one square inch of lead to weigh 5 oz., and to cost 21 shillings sterling per 112 lbs. (Ans. in dollars and cents).

Ans. \$240·90.

5. A rectangular garden is to be cut from a field of the same shape, so as to contain 2½ acres. One side of the field is taken for one side of the garden and measures 5 chains. Find the difference in length between the two adjacent sides of the garden.

Ans. Even.

6. The length of a room is ¼ more than its breadth, and it costs \$50 to cover the floor with carpet 30 inches wide at 75 cents per yard. Find the length of the room.

Ans. 25 feet.

7. A square field containing 3 acres, 4 square perches is enclosed by a wire fence 5 strands high. Find the cost of the fence in Canadian currency if wire costs 27½¢. per yard.

Ans. \$108·90.

8. A room is 30 feet long and 15 feet high. The area to be papered is equal to 2½ times the area to be carpeted. Find the width of the room.

Ans. 20 feet.

CLASSICS.

G. H. ROBINSON, M.A., TORONTO, EDITOR.

The following ludicrous translation of sentences on the Latin Grammar Paper [*vide infra*] deserve to be preserved for incorporation in the third series of the "Diversions of a Pedagogue."

(a) *Historionis est sui oblivisci.*

An historian is apt to forget himself.

He is to be forgetful of his own history.

He ought to forget his own actor.

It belongs to history to forget.

It is his duty to forget history.

It is possible for an actor to forget his part.

It is the history of myself that I have forgotten.

It is the part of history to forget him.

It is customary to forget one's history.

(b) *Tricena stipendia meritis erat.*

He deserved three stipends.

He had deserved three hundred stipends.

He deserved the thirtieth reward.

He deserved the third money.

Tricena had deserved the payment.

He was worth three steps.

He had earned his salary 300 times.

(c) *Hæc flocci aestimat.*

He counts them by flocks.

(c') *Urbem oppugnandum curabit.*

He cured the city of fighting.

UNIVERSITY OF TORONTO.

ANNUAL EXAMINATIONS, 1884.

All the Years.

LATIN GRAMMAR.

Examiner—George H. Robinson, M.A.

1. Decline in combination *ille acrior vin-dex, hic imus fulgor, certamen anceps*.

2. What peculiarities in the declension of *soli, filia, laurus, jugerum, vas, fames, carbasus*.

3. Compare *inferus, dives, sacer, male, diu, nuper*.

4. Express in Latin: six times, ½, 1884, January 6th, 2000 men.