

others again corn, and so on, the rules of honor forbidding those who devoted themselves to the robbery of one species of property to encroach upon the domain of the others.—*Fortnightly Review*.

MACHINE COLUMN

The Caligraph typewriter is fast gaining ground in Ottawa, on all other machines.

There 3 Caligraphs used in the Ottawa Business College, 15 O'Connor Street, and in the city many are replacing old machines with Caligraphs.

The Stenograph, a shorthand writing machine, has been introduced into the Ottawa Business College, 15 O'Connor Street, and several who are learning to operate it are quite pleased with it.

Soaking of machines reminds us that a few hints to learners would not be amiss, so here goes: Practice, practice, practice, is the way to acquire speed. Take time and care with everything you write. Make clean and perfect pages. Take pains even with practice work. Continuous practice is what tells. Work for little or nothing, at all events work. Get acquainted with the mechanism of the machine. Learn to keep all bright parts clean.

The following will do for a first exercise in practising on the Caligraph. Others will follow monthly: On, 2 r 1—no, 1 2 r—one, 2 r 1 2—none, 1 2 r 1 2—me, 1 r 1—am, 2 1 r—men, 1 r 2 1—moon, 1 2 r 2 r 1—noon, 1 2 r 2 r 1—wry, 2 1 1 r—women, 2 2 r 1 r 2 1—you, 2 2 r 1—your, 2 2 r 1 3—row, 1 2 r 2—now, 1 2 r 3—mow, 1 r 2 r 1—annoy, 1 1 r 1 r 2 r 1—able, 2 1 1 r 1—sable, 1 2 1 r 2 r 1—table, 1 2 1 r 2 r 1—stable, 1 2 2 1 r 2 r 1—constable, 1 r 2 r 1 1 2 2 1 r 2 r 1.

QUESTIONS IN ARITHMETIC

BY JOSEPH MORGAN, OTTAWA.

1. How far must a man walk to plough a five acre field if he turn a nine inch furrow? Make no allowance for turning at end of scrape. Ans.—51 miles.

2. How far from the end must I cut a 15 inch board that the piece cut off may contain 4 sq. feet? Ans.—3 ft. 2 2-5 in.

3. An agent sold on commission 81 self-binders at \$140 each and 113 mowers at \$65 each, remitting \$10,224.90 to the manufacturing firm? Find the rate of commission. Ans.—45-278 per cent.

4. A retail dealer bought of a wholesale dealer and was to receive two discounts of 10 per cent

and 15 per cent respectively or one of 22 per cent. Which offer should he accept and how many dollars will he gain thereby if list price of goods be \$1000? Ans.—Former is better by \$15.

5. What per cent is gained by buying pork at \$17.50 a barrel and selling at 12 cents a pound? Ans.—37 1-7 per cent.

6. A man drew 15 per cent of his bank deposit and with it paid a debt of \$1,119.40. What balance was left in the bank? Ans.—\$6,344.40.

7. How many square feet in the gable end of a house 24 ft. wide 6 ft. 6 in. high? Ans.—78 sq. ft.

8. What is the largest square timber that can be hewn from a log 42 in. in diameter? Ans.—2.97 in. square.

9. A room 28 ft. long, 18 ft. wide, 12 ft. high and will store how many cords of wood? Ans.—47 1/4 cords.

10. How many acres of flooring in a block 160 ft. long, 220 ft. wide, 6 stories high? Ans.—428.33 ac.

11. Find cost of 6,625 shingles at \$5.25 per M. Ans. \$63.63.

12. The sum of two numbers is 65, and their difference is equal to 1/3 of the greater number. Find the numbers. Ans.—26 and 39.

13. How long after noon will it be when the minute hand passes the hour hand the eleventh time? Ans.—Midnight.

* * *

THE RAINBOW

A fragment of a rainbow bright,
Through the moist air I see,
All dark and damp on yonder height,
All bright and clear to me.

An hour ago the storm was here,
The gleam was far behind,
So will our joys and grief appear,
When earth hath ceased to blind.

Grief will be joy if on its edge
Fall that holiest ray,
Joy will be grief if no faint pledge
Be there, of heavenly day.

—F. Keble.

* * *

YOUNG MAN

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