

$$(3) \quad \frac{2}{x} - \frac{3}{y} = 4, \text{ and } -\frac{3}{x} + \frac{2}{y} = 2$$

$$\therefore \frac{2}{x} + \frac{2}{y} = -1 - 12 \text{ etc. } \therefore x = -\frac{5}{14}, y = -\frac{5}{16}$$

$x=y=0$ are the other two roots.

$$(4) \quad y(x-z)=18 \quad \therefore x-z=\frac{18}{y}$$

$$(x-z)^2=4y^2 \quad \therefore x-z=\pm 2y \quad \therefore y=\pm 3$$

$$\therefore x-z=\pm 6 \text{ and } x=z\pm 6.$$

From 3rd and 2nd $z^2+8=4y^2-2xy$, substituting for x and y we get the value of x and y .

9. A contains $\frac{2}{5}$ water and $\frac{3}{5}$ wine; B $\frac{3}{10}$ water, $\frac{7}{10}$ wine.

Let x and y = quantities drawn from A and B respectively.

$$\therefore \frac{2}{5}x + \frac{3}{10}y = 5, \quad \frac{3}{5}x + \frac{7}{10}y = 11$$

whence $x=2, y=14$.

10. Join FG , then $FG=BC=AE$. And AFG is the $\triangle$ formed by AE, AF, AG , and it is $= \triangle FGC = \triangle AEB$.

Examination Questions.

PROMOTION EXAMINATIONS—NOVEMBER, 1881

COUNTY OF LINCOLN.

2ND CLASS TO JUNIOR THIRD.

ARITHMETIC.

Time—1½ hours.

1. Write in figures:—Seventy thousand and sixty-two; four hundred thousand five hundred and eight; forty-seven thousand four hundred and seventeen, and two hundred thousand and twenty-five.

2. A man sold a house for \$6,248, a carriage for \$175, seven tons of hay at \$14 a ton; how much money does he receive?

3. If a boy earn 75 cents every day and spend 47 cents, how much money will he have at the end of 365 days?

4. A man sells his butter at the market for 237 cents, his eggs for 175 cents, his apples for 437 cents, his potatoes for 770 cents and his chickens for 58 cents; he then spends 1287 cents of his money for clothes; how much has he left?

5. Work the following correctly:— $439+17+4850+68+336+5500+772+8$; also $43500-991$, and 4050×4050 .

Value—Ten marks for each, and ten marks additional for neat work.

SPELLING.

Time—1 hour.

1. Very busy planting roots, fruits, flowers.
2. Laughing, crying, quite afraid.
3. A great deal to learn to wear clothes.
4. He asked in shrill, piercing tones for a piece of meat.
5. The county of Norfolk in England.
6. In a dreadful rage he tried to seize Willie.
7. Sugar plums, a guard chain and some new music.
8. He managed to crawl easily, slowly and steadily.
9. Opening the door she saw a bird with soft, yellow feathers.
10. Enemies and friends happened to meet together.
11. She snipped off ribbon enough with her mother's scissors.
12. They buried him for he was dead already.
13. Ascending and descending the tall chimney.
14. She never lost her presence of mind.
15. He walked off coolly and leisurely.
16. He attracted his attention, fully believing in his power.
17. The weight of his soaked clothes completed his distress.
18. Men imagine they hide their thoughts, but God knows them.
19. He was touched at a scene of such emotion and pleasure.
20. In fifteen minutes they separated on their several errands.
21. A wearisome job for robust, healthy boys.
22. He threw off his clothes, jumped in and saved him.
23. A small country village near the wonderful city of London.

Value—50; 2 marks off for each mistake in spelling or use of capitals. Pupils will write but once, and the teacher will dictate slowly and distinctly.

READING.

Value—50; 35 marks being given for correct reading, and 15 for a reproduction in the pupil's own words, of the lesson on "The Best Fun," no previous preparation being allowed.

WRITING—Value, 30.

The teacher will cut off the papers in each subject as they are needed.

JUNIOR THIRD TO SENIOR THIRD CLASS.

SPELLING.

(Not to be seen by pupils.)

Time—40 minutes.

1. Nothing but repulses, accompanied by abuse.
2. Two mattresses and an earthen pitcher of vinegar.
3. His gratitude guessed her taste in an elegant basket.
4. He could scarcely keep his countenance during the harangue.
5. The marvellous work of art made a great sensation.
6. To my despair, the light suddenly disappeared.
7. An immense ocean covered with innumerable islands.
8. Tell me what I ate this morning for breakfast.
9. They seized him and clipped off both his ears.
10. So famed for his talent in nicely discerning.
11. The opportunity of pursuing a liberal course of study.
12. Tumbling and peeling the skin off their shins and knuckles.
13. Completely deceived and unconscious of their situation.
14. He conceived a new and original method.
15. The spectators rewarded him liberally.
16. Segacity, docility, benevolence, fidelity and attachment are qualities in the dog.
17. Nearly immersed and unable to extricate itself.
18. The final suppression of the Scottish rebellion.
19. He fought desperately for some minutes on the opposite side.
20. Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.

Value—50; 2 marks off for each mistake. Pupils to write but once; teachers to read slowly and distinctly.

READING.

Value—50; 35 marks for correct reading, 15 for a good reproduction in pupil's own language of the lesson on "Brave John Maynard."

WRITING—Value, 40.

GRAMMAR.

Time—1 hour.

1. What part of speech is each word in the following passage: (The word *the* not counted.)

He made his arrangements in the night and began very early the next day. He instructed the laborers and they came at four o'clock in the morning. They set to work and the thing was soon done.

2. Write six sentences and draw a line under that part of each that is called the predicate.

3. Write a description of your school-house. Try to fill ten lines of your paper with it.

Value—1, 32; 2, 12; 3, 16; ten remarks additional for neat paper. Value of last question includes spelling, correctness and general fitness of language.

GEOGRAPHY.

Time—1½ hours.

1. Give the boundaries of the township you live in.
2. Name the province you live in, and name separately the other provinces of Canada, showing which lie east and which west of your own.
3. Name the land lying east of the Pacific Ocean, and that lying west; through what must you pass in sailing from the Pacific into the Arctic Ocean?