

unequal parts, the squares on the two unequal parts are together double of the square on half the line and of the square on the line, between the points of section.

### SCHOOL MANAGEMENT AND TEACHING.

1. Discuss the extent to which a teacher may be fairly held responsible for the *attention* of his pupils.
2. Illustrate your mode of teaching Arithmetic by showing how you would teach the rule of Long Division.
3. State your views as to the value of *Geography* as a means of mental discipline, and give the steps by which you would prepare a young child to understand and use a *map* properly.
4. The Useful Knowledge Lessons in Reader are often taught by simply asking the questions. Explain your proposed method.
5. Write full notes of a model lesson on *Iron*, mentioning in the proper connections the various articles you would use in illustrating.
6. As a teacher, on what incentives will you chiefly rely, (1) for awakening an interest in study, (2) for promoting a general sentiment in favor of order.
7. By what principles will you be guided in the assignment of *Home Lessons*?

## THIRD-CLASS LICENSES (Grade D.)

### GEOGRAPHY.

1. Explain the terms: Isthmus, Plateau, Prairie, River, Strait, Volcano, Zone, Axis, Longitude.
2. Write a note on the river systems of North America.
3. Name the chief mountain ranges of each continent, and the general direction of each range.
4. Give the boundaries of the counties of Queens and Colchester.
5. Name the New England and Middle States, with their capitals.
6. Ireland, its surface, products, divisions and towns.
7. Describe the physical features of Asia.
8. Draw an outline map of that part of the Maritime Provinces bordering on the Gulf of St. Lawrence and Northumberland Strait.

### HISTORY.

1. Describe briefly the reign and character of Henry III.
2. Name the reign to which each of the following belongs: Domesday Book compiled, Murder of Thomas Becket, Magna Charta signed, Loss of Guienne, Battle of Otterburn, Treaty of Troyes, Field of the Cloth of Gold, Rye House Plot, Bank of England founded, Battle of Blenheim, Peace of Amiens, Catholic Emancipation, Abyssinian War.
3. Mention the chief events in the reign of Elizabeth.
4. Write a short account of the Indian Mutiny.
5. Name the leading statesmen of Victoria's reign, and sketch the career of any one of them.
6. Narrate the story of the quarrel between Charnis  and Charles de la Tour.
7. Describe the first capture of Louisbourg.
8. What events in Nova Scotia History correspond to the following dates: 1598, 1614, 1654, 1710, 1747, 1758, 1784, 1819, 1841, 1848, 1855, 1864, 1867.

### COMPOSITION.

1. Combine the following statements into a simple sentence:  
Wellington gained a victory.  
Wellington was the commander of the British army.  
The victory was a decisive one.  
It was gained over the French.  
The victory was gained at Waterloo.  
Waterloo is in Belgium.  
The victory was gained in 1815.
2. Correct or justify the following: This is very easy done. Every boy and girl must learn their lesson. She speaks very distinctly. The mayor, with his attendants, was there. Napoleon flew to Paris. The boiler bursted instantly. I knew it to be he. Let every one please themselves. The quality of the apples were good. They differ among one another.
3. Write a short essay on one of the following: "Iron," "Wheat," or "the Horse."

4. Punctuate the following passage:

Al yet ere I descend into the grave  
May I a small house and large garden have  
And a few friends and many books both true  
Both wise and both delightful too.

### BOOK-KEEPING.

1. Define Debtor, Creditor, Invoice and Assets. Explain the abbreviations, Bal., C.O.D., Do., Mchse., No., lbs.
2. Write a "Bill of Goods" containing at least *twelve* different items, and receipt it.
3. Write in usual Day Book form, transactions with *six* different persons; enter the same in the Ledger and close the account of each.

### GRAMMAR.

1. Define number and case. Write the *wanting* singular or plural of the following nouns: *duty, march, alley, gulfs, knife, thieves, echo, mice, children, monarch, potatoes.*
2. Name and give examples of the classes and sub-classes of adjectives, and compare *late, happy, old, virtuous, kind, fore* and *little.*
3. Give the general classification of the Pronouns; name the Relative pronouns, giving sentences illustrating the use of each.
4. Distinguish between *weak* and *strong* verbs. Give principal parts of the following verbs, classifying them as weak or strong: *cut, break, go, buy, catch, take, run, give, sell, make, work, shave, know.*
5. Parse: "They made him captain, and he gave them orders to sail the boat six leagues south of the point."
6. What forms may the simple subject or object assume?
7. Analyse:  
"In the Acadian land, on the shores of the Basin of Minas, Distant, secluded, still, the little village of Grand Pr  lay in the fruitful valley."

### ARITHMETIC.

1. What is a composite number? a prime number? Give examples of each. Resolve into prime factors 108, 437, 289, 1089, 539.
2. Simplify  $7\frac{1}{2} - (3\frac{1}{3} + \frac{1}{3} - 1\frac{1}{6}) + \frac{1}{3}$ .
3. What are decimal fractions? Prove the rule for dividing one decimal fraction by another. Reduce 25 square inches to the decimal of an acre.
4. A man took 7501 steps in walking  $3\frac{1}{3}$  miles, what was the average length of his steps?
5. What is Commission? Brokerage? A commission merchant sold 4,000 lbs. of sugar at 7½¢ per lb. What sum should he remit his principal, his commission being at the rate of 1½ per cent. and the expenses, other than commission, amounting to \$45.60?
6. If 20 men, 40 women and 50 children receive \$350 for 7 weeks' work, and 2 men receive as much as 3 women or 5 children, what sum can a woman earn in a week?

### SCHOOL MANAGEMENT AND TEACHING.

1. Illustrate your mode of teaching Grammar by showing how you would develop to a class of beginners the idea (1) of an *Adjective*, (2) of an *Adverb*.
2. In teaching the Useful Knowledge Lessons in Reader, teacher: often simply ask the questions as given in book Explain *your* method.
3. What are the chief points to be aimed at in teaching *Reading*? Show how you would seek to secure them.
4. "From 322 take 149." Explain this operation as to a class of beginners.
5. You have taken charge of a school for the first time. State as fully as possible how you propose to spend the opening Session.
6. Write notes of an oral lesson, adapted to pupils of the Third Grade, on the *Elephant*.

### ALGEBRA.

1. Explain by example the rule for subtraction in Algebra.
2. If  $a = 1, b = 2, c = 3, d = 4$ , find the value of  $d^2 - (c^2 + b^2) + a^2 + 2(bc - ad)$ .
3. Find the continued product of:  $a - x, a + x, a^2 + x^2, a - x^4, a^8 + x^8$ .
4. Divide  $a^3 + b^3 - c^3 + 3abc$ , by  $a + b - c$ .
5. What do you understand by the term Least Common Multiple in Algebra? Find L. C. M. of  $x^2 - 5x + 4$ , and  $x^2 - 6x + 8$ .
6. Find the value of:

$$\frac{1}{1-x} - \frac{1}{1-x^2} + \frac{x}{1+x^2}$$