PUBLIC SCHOOL DEPARTMENT.

[Contributed to, and under the managementof, Mr. S. McAllister, Headmaster of Ryerson School, Toronto.]

SCHOOL-ROOM WORK.

In response to numerous urgent requests we devote the whole of the space allotted to this department, in the present number, to practical work. We hope that by this step we shall be rendering valuable aid to our fellow teachers throughout the country, at a time when they need it most, owing to the pressure of work that always accompanies the close of the "long half" of the year. We must acknowledge the courtesy of our friends who have made it possible to place valuable practical questions before our readers, by sending us copies of Promotion Examination Papers used in Goderich, West Middlesex, and in Perth.

GODERICH MODEL SCHOOL.

ARITHMETIC—SECOND CLASS.

I. How often is 9 contained in the difference between 30765423 and 47324362?

II. By what must 234 be multiplied to give for product 132678?

III. A person bought 140 horses at $125 each, and 575 sheep at $5 per head; find total amount paid for them.

IV. How many times is 9 contained in 12 times 1024067?

V. How many lots at $145 each can be bought for $14355?

VI. From the sum of 7806423 and 70865 take the product of 435 and 78.

VII. 49306402÷654.

VIII. How many pounds of butter at 15 cents per pound will be required to pay for 3 yards of cloth at $2 per yard.

IX. A farmer paid $350 for horses, $240 for cows, $22 for a plough, $18 for harrows, $75 for a waggon and $475 for other implements. After paying for them he had $425 left; how much money had he at first?

X. A merchant bought wheat as follows: on Monday 78056 pounds, on Tuesday 10945 pounds, on Wednesday 70045 pounds, on Thursday, 240642 pounds, and on Friday 23456 pounds. On Saturday he sold twelve car loads 34567 pounds each; how many pounds had he left?

ARITHMETIC—THIRD CLASS—SENIOR.

I. Express 987654321 square inches, in acres, roods, etc.

II. Multiply the difference between £257 17s. 9¾d. and £400 6s. 3½d. by CMIX.

III. What number divided by 496 will give 49 for quotient and 207 for remainder.

IV. The quotient is 17 acres, 27 perches, 19 yds., the dividend 970 acres 39 per.; find the divisor.

V. An estate worth £3456 7s. 8d. is divided among 3 children; the first gets £1234 5s. 6½d., the second gets half as much, and the third gets the remainder; find share of each.

VI. If 7 yds. of cloth cost $35, how many bushels of potatoes at 35 cents per bushel must I give for 5 yds. of the same cloth?

VII. By what must 957 acres 3 rds. 27 yds., be divided in order to give 39 for quotient?

Additional for Senior Section.

VIII. Find the value of $2\frac{1}{4}$ of $\frac{3}{5} + \frac{\frac{2}{3}}{2\frac{1}{2}} + 4\frac{1}{2}$ of $1\frac{1}{3} - 4\frac{1}{5}$.

IX. After selling $\frac{2}{3}$ of $\frac{3}{4}$ of my farm and