6. Brown, in London, has £715 stg. He sends it to a friend in Toronto. How much does the friend realize, exchange at $109\frac{1}{2}$, commission $\frac{1}{2}$ % extra?

PAPER X. (ADMISSION TO HIGH SCHOOLS.) 1877.

1. How often is 6 yds. 2 ft. contained in 25 furlongs?

2. If I buy 3 bushels, paying 5 cents for every 3 quarts, and sell at a profit of 10 cents per gallon, find the selling price of the whole.

3. Simplify $\frac{2\frac{1}{2}+\frac{5}{8}\text{ of }12-\frac{5}{6}}{3\frac{1}{3}\times 01+\frac{9}{10}}\times\frac{11}{3\frac{2}{3}}\times\frac{18\frac{11}{12}+5\frac{8}{15}-22\frac{23}{30}}{\frac{1}{1\frac{1}{27}}\div(2\frac{7}{10}-\frac{5}{8}+4)}$

4. Reduce 2 hrs. 20 min. to the decimal of $3\frac{1}{3}$ weeks.

5. A sum of money was divided among *A*, *B* and *C*. *A* received $\frac{2}{5}$ of the sum; *B*, \$20 less than $\frac{2}{3}$ of what was left; and the remainder, which was $\frac{3}{4}$ of *A*'s share, was given to *C*. Find the sum divided.

6. Trees are planted 12 feet apart around the sides of a rectangular field (40 rods long) containing two acres. Find the number of trees.

7. I buy a farm containing 80 acres, and sell $\frac{3}{4}$ of it for $\frac{3}{5}$ of the cost of the farm; I then sell the remainder at \$60 per acre, and neither gain nor lose by the whole transaction. Find the cost of the farm.

8. Find the amount of the following bill of goods:—$18\frac{3}{4}$ cords of wood, at \$3.50 per cord. 16 yards of cloth, at \$1.$12\frac{1}{2}$ per yard. 12 bush. 25 lbs. of wheat, at \$1.20 per bush. 1,400 feet of lumber, at \$12.50 per thousand. 65 tons 12 cwt. of coal, at 30 cents per cwt.

PAPER XI. (ADMISSION TO HIGH SCHOOLS.) 1878.

1. Define prime number, multiple of a number, highest common factor of two or more numbers, ratio between numbers. Find the prime factors of 1260.

2. The quotient is equal to six times the divisor; the divisor is equal to six times the remainder, and the three together, plus 45, amount to 561. Find the dividend.