10. A garrison of 150 men have provisions for 80 days allowing each man 4 lbs. a day; after 50 days 50 more join them and their daily rations is diminished 1 lb. a day : how long will their supplies last?

XIII.

1. If $2\frac{5}{8}$ yards of cloth cost $\$4\frac{1}{5}$, what will $5\frac{1}{3}$ yards cost?

2. Five men agree to do a piece of work, but two of the men not coming, the work was prolonged $3\frac{1}{2}$ days : in what time could the 5 men do it?

3. A merchant sells 35 inches for a yard and at an advance of $\frac{1}{3}$ on cost: find his gain per cent?

4. What is the time, provided $\frac{2}{3}$ of the time past midnight, plus $1\frac{1}{15}$ hours, equals $\frac{2}{5}$ of the time to midnight?

5. How far can a boy ride with his father who leaves Brampton for Toronto at 7 o'clock in the morning, and can drive the distance, 22 miles, in $3\frac{1}{7}$ hours, so that he may be back at 9 o'clock for school, if he walk at the rate of $3\frac{1}{2}$ miles an hour?

6. A pole is fixed in the bottom of a river. Three feet are in the air, the part in the water is 3 times as long as that in the mud, and the part in the mud is $\frac{4}{15}$ of the rest of the pole : how long is the pole?

7. How many stones 3 feet long by 2 feet wide and $1\frac{1}{2}$ ft. thick will it take to build the walls of a house 18 feet long, 12 feet wide and 3 feet thick, and 4 feet high?

8. A boy engaged with his master for $\$80$ a year and a suit of clothes, but leaving at the end of 5 months, he received $\$24$ and the suit of clothes : find its value.