CHAPTER L.

PERCENTAGE AND ITS APPLICATIONS.

Section I.-Introductory.

EXAMPLES.-1.

1. A boy spends 1 cent of every 5 cents he has : how many does he spend of 20 cents ?

> Sol.—He spends 1 of every 5; there are 4 times 5 in 20... he spends 4 times 1, or 4 $(=20 \times 1 \div 5, \text{ or } =20 \times \frac{1}{5}).$

2. A boy spends 2 cents of every 6 he has: how many does he spend of 30?

Sol.—He spends 2 out of every 6; there are 5 sixes in 30...he spends 5 times 2 or 10 $(30 \times 2 \div 6 = 30 \times \frac{2}{6})$.

8. If he spends 4 out of every 10, how many does he spend of 60 ?

Sol.—He spends 4 of every 10; there are 6 tens in 60... he spends 6 times 4, or 24 $(=60 \times 4 \div 10 = also 60 \times \frac{4}{10} = 60 \times .4).$

4. A boy gave away 6 marbles of every 20 he had : how many did he give away of 40 ? of 60 ? of 100 ?

5. A man expended in groceries \$6 of every \$10 he had : how much did he spect t of \$45 ?

Sol.—He spent \$6 of every \$10; there are $4\frac{1}{2}$ tens in 45... he spent $4\frac{1}{2}$ times 6=27 $(=45\times6+10, \text{ also } =45\times\frac{6}{10}).$