3 years 3 months and 6 days, at 15 per cent., amount to $149; what is his whole fortune?

14. Mary, being asked how much money she had on interest, and at what per cent., replied: the principal and rate per cent. are such that in 5 years the amount would be $750, and in 7 years, $810; what was the principal and the rate per cent.?

15. A man sold two horses for $240, losing on the first 20 per cent., gaining on the other 20 per cent.; what was the value of each horse, provided he received for the second 3 times as much as for the first?

16. The amount of Robert's capital for a certain time, at 4 per cent. is $360, and for the same time, at 7 per cent. it is $405; required his capital and the time.

Lesson IX.

1. In what time will $40, at 6 per cent., give $12 interest?

SOLUTION.—If the interest of $40 is $12, $\frac{12}{40}$, or $\frac{3}{10}$ of the principal equals the interest. If the interest of $1 for 1 year is $\frac{3}{10}$ of a dollar, of $100, it is 100 times $\$\frac{3}{10}$, or $30. If it require 1 year for $100 to give $6 interest, to give $30 interest it will require as many years as $6 is contained times in $30, or 5 years.

2. In what time will $60, at 5 per cent., give $18 interest?

3. In what time will $90, at 7 per cent., give $27 interest?

4. In what time will $100, at 6 per cent., give $10 interest?

5. In what time will $120, at 10 per cent., give $120 interest?

6. In what time will $250, at 6 per cent., give $20 interest?