Lesson VIII.

1. What principal will in 4 years, at 5 per cent., amount to \$360?

Solution.—If the interest of \$1 for 1 year is 5 cents, for 4 years it is 4 times 5 cents, or 20 cents. Therefore, 200, or 1 of the principal equals the interest; to which add &, the principal, and we have § of the principal equal to the amount, \$360. of the principal is \$360, } of the principal is } of \$360, which is \$60, and § (the principal), is 5 times \$60, which are \$300.

2. What principal will in 3 years, at 6 per cent., amount to \$118?

3. What principal will in 6 years, at 10 per cent.,

amount to \$120?

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4. What principal will in 10 years, at 7 per cent., amount to \$170?

5. What principal will in 4 years, at 5 per cent.,

amount to \$660?

6. A is worth $\frac{1}{3}$ as much as B; and the interest on their united fortunes for 2 years, at 5 per cent., is \$880. What is each of their fortunes?

7. A merchant sold a quantity of cloth for \$214, and thereby gained 7 per cent. What did the cloth

cost him? 8. What principal will in 2 years, at 7 per cent.,

amount to \$1140?

9. What principal will in 10 years and 8 months,

at 9 per cent., amount to \$490?

10. The amount due on a note, which had been on interest 6 years and 2 months, at 6 per cent., was What was the face of the note?

11. What principal will in 12 years and 9 months,

at 4 per cent., amount to \$302?

12. If $\frac{1}{2}$ of A's fortune for 4 years and 6 months, at 6 per cent., amounts to \$127; what is his whole fortune?

13. If $\frac{2}{3}$ of B's fortune, being put on interest for