

7. In what time will \$40, at 7 per cent., give \$8.40 interest ?
8. In what time, at 8 per cent., will \$30 give \$9.60 interest ?
9. In what time, at 6 per cent., will \$10 give \$2.40 interest ?
10. In what time, at 4 per cent., will \$20 give \$5.60 interest ?
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Lesson X.

1. At what per cent., will \$50, in 1 year and 6 months, or ($1\frac{1}{2}$ years), give \$6 interest ?

SOLUTION.—If the interest of \$50 for $1\frac{1}{2}$, or $\frac{3}{2}$ years is \$6, for $\frac{1}{2}$ of a year it is $\frac{1}{3}$ of \$6, or \$2 ; and for $\frac{1}{2}$, or 1 year, it is 2 times \$2, or \$4. Therefore, $\frac{1}{30}$, or $\frac{1}{25}$ of the principal equals the annual interest. If the interest of \$1 for 1 year is $\frac{1}{25}$, of \$100, it is 100 times $\frac{1}{25}$, or \$8. Therefore, it is 8 per cent.

2. At what per cent., will \$40 annually give \$2 interest ?
3. At what per cent., will \$80 annually give \$3.20 interest ?
4. At what per cent., will \$120 annually give \$12 interest ?
5. At what per cent., will \$120 in 4 years, give \$20 interest ?
6. At what per cent., will \$100 in 3 years, give \$30 interest ?
7. At what per cent., will \$5 in 14 years, give \$7 interest ?
8. At what per cent., will \$25 in 1 year and 9 months, give \$3 50 interest ?
9. At what per cent., will \$80 in 5 years and 8 months, give \$34 interest ?
10. At what per cent., will \$500 in 7 years and 6 months, give \$15 interest ?