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6. If $\frac{1}{2}$ of the principal equals the interest, what is the rate per cent?

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8. If the interest of \$44 for 1 year is \$4, what is the rate per cent.?

SOLUTION.—If the interest of \$44 is \$4, $\frac{4}{44}$, or $\frac{1}{11}$ of the principal equals the interest. Therefore, the rate per cent. is $\frac{1}{11}$ of 100 per cent., which is $9\frac{1}{11}$ per cent.

9. If the interest of \$72 for 1 year is \$6, what is the rate per cent.?

10. If the interest of \$96 for 1 year is \$12, what is the rate per cent.?

11. B bought a horse for \$100 and sold it for \$109, how much did he gain per cent.?

12. A woman bought a quantity of oranges for 75 cents and sold them for 84 cents; how much did she gain per cent.?

13. A merchant bought a quantity of books for \$200, and sold them for \$228; how much did he gain per cent.?

14. If by laying out \$37, I gain a sum equal to $\frac{3}{8}$ of it, what do I gain per cent.?

15. Harvey bought a hogshead of molasses for \$25 and sold it for \$31 $\frac{1}{2}$; how much did he gain per cent.?

16. Bought a knife for 37 cents and sold it for 57 $\frac{1}{2}$ cents; what was the gain per cent.?

17. A stationer sold a quantity of paper for $\frac{5}{4}$ of what it cost him; how much did he gain per cent.?

18. James received for his horse $\frac{7}{5}$ of what it cost him; how much did he gain per cent.?