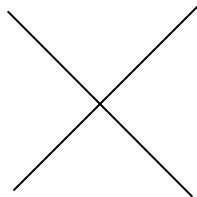


9.2 Percents and Proportions

9.4 The Percent Equation

1. **Describe** and **correct** the error when using a proportion to answer the question.

50 is 20% of what number?



$$\frac{a}{50} = \frac{20}{100}$$
$$50 \cdot \frac{a}{50} = 50 \cdot \frac{20}{100}$$
$$a = 10$$

Match the question with the correct proportion.

2. 75 is 12% of what number? **A.** $\frac{12}{75} = \frac{p}{100}$
3. What number is 12% of 75? **B.** $\frac{75}{b} = \frac{12}{100}$
4. What percent of 75 is 12? **C.** $\frac{a}{75} = \frac{12}{100}$

Use a proportion or the percent equation to answer the question.

5. What percent of 50 is 5? 7. 68 is 85% of what number?
6. What percent of 75 is 21? 8. 40 is 32% of what number?

9. What number is 15% of 80?

11. What percent of 60 is 27?

10. What number is 40% of 95?

12. 18 is 6% of what number?

13. Which is greater, 35% of 60 or 30% of 80?

14. You have 45 books on your bookshelf. If 9 are mystery books, what percent of the books on your bookshelf are mystery books?

15. Forty-five percent of the trees in a park are maple trees. There are 27 maple trees in the park. How many trees are in the park in all?