

REVIEW: Percents: Finding the Whole

Name _____

Key Concept and Vocabulary

60% of 45 is 27.

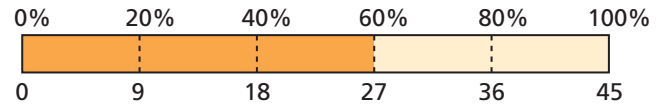
$$\frac{3}{5} \times 45 = 27$$

$$27 \div \frac{3}{5} = 45$$

Write the percent as a fraction. Then divide the part by the fraction.



Visual Model



27 is 60% of 45.

Skill Examples

1. 30% of what number is 15?

$$\begin{aligned} 15 \div 30\% &= 15 \div \frac{3}{10} \\ &= 15 \times \frac{10}{3} = 50 \end{aligned}$$

2. 110% of what number is 88?

$$\begin{aligned} 88 \div 110\% &= 88 \div \frac{11}{10} \\ &= 88 \times \frac{10}{11} = 80 \end{aligned}$$

Application Example

3. A basketball player made 9 shots, which were 45% of her attempted shots. How many shots did the basketball player attempt?

$$\begin{aligned} 9 \div 45\% &= 9 \div \frac{9}{20} \\ &= 9 \times \frac{20}{9} \\ &= 20 \end{aligned}$$

- ❖ The basketball player attempted 20 shots.

PRACTICE MAKES PURR-FECT™



Check your answers at BigIdeasMath.com.

Find the whole.

4. 25% of what number is 29? _____
5. 85% of what number is 68? _____
6. 16% of what number is 36? _____
7. 55% of what number is 77? _____
8. 4% of what number is 40? _____
9. 155% of what number is 403? _____
10. **PLAY** Of the students who auditioned for a play, 20% got a part. There are 12 students in the play. How many students auditioned for a part in the play? _____
11. **HOMEWORK** You have completed 15 questions of your English homework, which is 60%. How many English questions were assigned for homework? _____