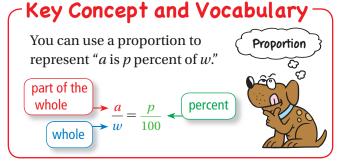
REVIEW: The Percent Proportion



Skill Examples

1. $\frac{36}{50} = \frac{p}{100}$ 100 • $\frac{36}{50} = 100 • \frac{p}{100}$ 72 = p ∴ So, 36 is 72% of 50.

2.
$$\frac{a}{36} = \frac{20}{100}$$

$$36 \cdot \frac{a}{36} = 36 \cdot \frac{20}{100}$$
$$a = 7.2$$

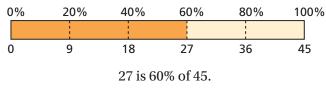
PRACTICE MAKES PURR-FECT®

Write and solve a proportion to answer the question.

- 4. 68 is what percent of 80?
 - $\frac{68}{80} = \frac{p}{100};85\%$
- 6. 36 is 16% of what number? $\frac{36}{w} = \frac{16}{100}; 225$
- 8. What number is 64% of 40? $\frac{a}{40} = \frac{64}{100}; 25.6$



Visual Model



Application Example

3. A basketball player makes 45%, or 9 shots, of her attempted shots. How many shots did the basketball player attempt?

 $\frac{9}{w} = \frac{45}{100}$ $9 \cdot 100 = w \cdot 45$ 900 = 45w $\frac{900}{45} = \frac{45w}{45}$ 20 = wThe basketball player attempted

20 shots.





Check your answers at BigIdeasMath.com.

5.	What number is 25% of 116?			
		<i>a</i> _	$=\frac{25}{100}; 25$	a
		116	$\frac{100}{100}$	3

- 7. 48 is what percent of 128? $\frac{48}{128} = \frac{p}{100}; 37.5\%$
- **9.** 77 is 55% of what number? $\frac{77}{w} = \frac{55}{100}; 140$
- 10. PLAY Students are auditioning for a play. Of the 60 students auditioning, 12 will get a part in the play. What percent of the students who audition will get a part in the play?
 20%
- **11. HOMEWORK** You have completed 60% of your English homework. The assignment has 25 questions. How many questions are left? <u>10 questions</u>
- 76 Skills Review Topic 14.5