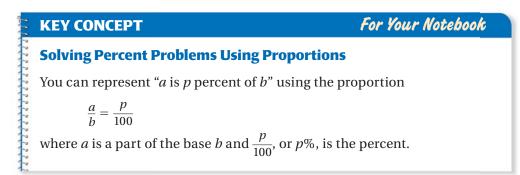
<b>3.7</b> текз а.1, А.З.А, А.4.А; 8.З.В	Solve Percent Problems	
Before	You solved proportions.	
Now	You will solve percent problems.	
Why?	So you can solve a problem about racing, as in Ex. 34.	

## Key Vocabularypercent, p. 916

• proportion, p. 163

Recall that *percent* means "divided by 100." For example  $27\% = \frac{27}{100}$ . By writing a percent as a fraction, you can use a proportion to solve a percent problem.



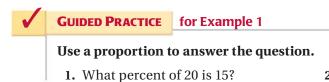
## EXAMPLE 1 Find a percent using a proportion

## What percent of 25 is 17?

## **Solution**

Write a proportion where 25 is the base and 17 is a part of the base.

**AVOID ERRORS**  
You can also solve for p  
by multiplying each side  
of the equation by 100.
$$\frac{17}{25} = \frac{p}{100}$$
Substitute 17 for a and 25 for b. $1700 = 25p$ Cross products property  
 $68 = p$ Divide each side by 25. $17$  is 68% of 25.Iminimated Algebra  
at classzone.com



2. What number is 30% of 90?