

## Vocabulary and Concept Check

- VOCABULARY** Write the percent equation in words.
- REASONING** A number  $n$  is 150% of number  $m$ . Is  $n$  *greater than*, *less than*, or *equal to*  $m$ ? Explain your reasoning.
- DIFFERENT WORDS, SAME QUESTION** Which is different? Find “both” answers.

What number is 20% of 55?

55 is 20% of what number?

20% of 55 is what number?

$0.2 \cdot 55$  is what number?

## Practice and Problem Solving

Answer the question. Explain the method you chose.


- What number is 24% of 80?
- 15 is 30% of what number?
- 20 is what percent of 52?
- 15 is what percent of 40?
- What number is 120% of 70?
- 48 is 75% of what number?


Write and solve an equation to answer the question.

- 20% of 150 is what number?
- 35% of what number is 35?
- 29 is what percent of 20?
- What percent of 300 is 51?
- 45 is what percent of 60?
- 0.8% of 150 is what number?
- 0.5% of what number is 12?
- 120% of what number is 102?

**ERROR ANALYSIS** Describe and correct the error in using the percent equation.

- What number is 35% of 20?
- 30 is 60% of what number?

  $a = p \cdot w$   
 $= 35 \cdot 20$   
 $= 700$

  $a = p \cdot w$   
 $= 0.6 \cdot 30$   
 $= 18$

- COMMISSION** A salesperson receives a 2.5% commission on sales. What commission does the salesperson receive for \$8000 in sales?
- FUNDRAISING** Your school raised 125% of its fundraising goal. The school raised \$6750. What was the goal?
- SURFBOARD** The sales tax on a surfboard is \$12. What is the percent of sales tax?

