

Lesson 4-5

Reinforce Understanding

Determine the Whole Given the Part and Percent

I can determine the whole when I know a part and the percent that part represents.

Worked model

A team has won 24 games, and that is 40% of the games it played. How many games did the team play?

1. Pair up what you know: 24 games matches 40%.
2. Step down to ten percent: divide both terms by four, giving 6 games.
3. Step up to one hundred percent: multiply both terms by ten.
4. Check forward: forty percent of your total should return the 24 wins.

Answer: The team played 60 games in all.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Sort each number by the role it plays in "\$42 is 60% of the original price."

Write the name of the correct group on each line.

Groups: The part The percent The unknown whole

- _____ \$42
- _____ 60%
- _____ the original price
- _____ the amount Akela paid
- _____ 0.6
- _____ 100%

2. \$20 is 50% of what number?

Circle the letter of the best answer. Show how you know.

- A. \$10
- B. \$25
- C. \$40
- D. \$70

3. Which equation says "30 is 25% of some number n"?

Circle the letter of the best answer. Show how you know.

- A. $0.25n = 30$
- B. $n = 0.25 \times 30$
- C. $25n = 30$
- D. $n = 30 + 25$

Show your work
