



# Check What You Learned

## Ratios, Rates, and Percents

Solve each proportion.

- |    | <b>a</b>                                   |  | <b>b</b>                                   |  | <b>c</b>                                   |
|----|--|--|--|--|--|
| 1. | $\frac{\square}{12} = \frac{5}{4}$ _____   |  | $\frac{18}{16} = \frac{\square}{24}$ _____ |  | $\frac{2}{\square} = \frac{10}{15}$ _____  |
| 2. | $\frac{15}{21} = \frac{\square}{7}$ _____  |  | $\frac{\square}{8} = \frac{18}{24}$ _____  |  | $\frac{10}{14} = \frac{15}{\square}$ _____ |
| 3. | $\frac{5}{\square} = \frac{20}{24}$ _____  |  | $\frac{4}{7} = \frac{\square}{28}$ _____   |  | $\frac{8}{6} = \frac{20}{\square}$ _____   |
| 4. | $\frac{\square}{10} = \frac{21}{15}$ _____ |  | $\frac{15}{\square} = \frac{20}{12}$ _____ |  | $\frac{3}{12} = \frac{\square}{16}$ _____  |

Write the equivalent decimal and fraction for each percent.

- |         | <b>a</b> | <b>b</b> |         | <b>c</b> | <b>d</b> |
|---------|----------|----------|---------|----------|----------|
| Percent | Decimal  | Fraction | Percent | Decimal  | Fraction |
| 5. 24%  | _____    | _____    | 110%    | _____    | _____    |
| 6. 37%  | _____    | _____    | 55%     | _____    | _____    |
| 7. 6%   | _____    | _____    | 235%    | _____    | _____    |

For each fraction or decimal, write the equivalent percent.

- |    | <b>a</b>               |  | <b>b</b>              |  | <b>c</b>              |
|----|------------------------|--|-----------------------|--|-----------------------|
| 8. | $\frac{4}{25} =$ _____ |  | $0.05 =$ _____        |  | $\frac{3}{5} =$ _____ |
| 9. | $0.8 =$ _____          |  | $\frac{7}{8} =$ _____ |  | $1.3 =$ _____         |

Complete each sentence.

- | <b>a</b>                  | <b>b</b>              |
|---------------------------|-----------------------|
| 10. 24 is 30% of _____.   | 42 is _____% of 50.   |
| 11. 20% of 75 is _____.   | 112 is 70% of _____.  |
| 12. 6.2 is _____% of 124. | 32% of 85 is _____.   |
| 13. 9 is 12.5% of _____.  | 7 is _____% of 56.    |
| 14. 125% of 48 is _____.  | 5.5 is 125% of _____. |

**Check What You Learned****SHOW YOUR WORK****Ratios, Rates, and Percents**

Solve each problem.

- 15.** Jeans are \$20 for 2 pairs. Kerry spent \$40 on jeans. How many pairs did she buy?

Kerry bought \_\_\_\_\_ pairs of jeans.

- 16.** Skirts are 4 for \$30. Marta and her sisters bought 6 skirts. How much did they pay?

They paid \_\_\_\_\_.

- 17.** Sweaters are 3 for \$50. Leslie and her mother spent \$100 on sweaters. How many did they buy?

They bought \_\_\_\_\_ sweaters.

- 18.** T-shirts are 3 for \$18. Tia bought 4 T-shirts. How much did she spend?

Tia spent \_\_\_\_\_.

- 19.** In Keon's homeroom class,  $\frac{3}{5}$  of the students participate in sports. What percent of students participate in sports?

\_\_\_\_\_ participate in sports.

- 20.** Fifty-five percent of the students at West Side Middle School walk to school. What fraction of the students walk to school?

\_\_\_\_\_ of the students walk to school.

- 21.** A new car that costs \$17,500 loses 25% of its value in the first year. How much is the loss of value?

The loss of value is \_\_\_\_\_.

- 22.** The 140-member chorus at West Side Middle School wants to add 30 percent more members next year. How many members do they want to add?

They want to add \_\_\_\_\_ members.

**15.****16.****17.****18.****19.****20.****21.****22.**