

Independent Practice

7.5

NAME _____

Module 7 Ratio, Proportion, and Percent
Lesson 5 Percent Proportions

Use the percent proportion to write each fraction as a percent.

1. $\frac{3}{10}$

2. $\frac{2}{5}$

3. $\frac{1}{20}$

4. Mindy collected 40 apples at a farm festival. Her mom used 24 of the apples to make apple pies. What percent of Mindy's apples was used to make pies?

Estimate.

5. 18% of 25

6. 92% of 500

7. 33% of 610

Solve.

8. Gia bought sneakers that cost \$59. Estimate the amount of sales tax she paid if the sales tax in her state is 5%. Then, find the actual amount.
9. For lunch, Gary ordered a turkey sandwich for \$6 and an iced tea for \$1.50.
- a. He wants to leave the waiter a 20% tip. How much gratuity should Gary leave?
- b. Gary has to pay 4% tax on his lunch. How much tax will he pay?

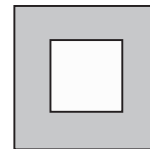
10. Charity makes and sells candles. The markup is 150% of what it costs her to make them. It costs her \$2.80 to make a small candle and \$3.50 to make a large candle. Find the selling price of each size of candle.
11. In the fall, the manager of a clothing store sells the remaining summer clothes for 80% off. Graham bought a pair of shorts originally marked \$38. What is the discount? How much will he pay for the shorts?

Journal

1. Tell how the percent proportion is different than other proportions. Then, explain how to use the percent proportion to write $\frac{3}{4}$ as a percent.
2. Explain why a markup can be greater than 100%, but a discount can not be.
3. The markup on a book is 90% of what it cost to produce the book, which was \$3.20. Dylan said that means the book will sell for \$2.88. What error did Dylan make? How much will the book sell for?
4. When will a discount equal the new selling price of an item? When will a discount be greater than the new selling price of an item? Use examples in your explanations.

Cumulative Review

1. The perimeter of the large square is 16 inches. The perimeter of the small square is 8 inches. Find the area of the shaded region.



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Evaluate.

2. $\sqrt{900} - 3^2$

3. $25^2 + 1^2$

Find the decimal and percent equivalents.

4. $\frac{9}{20}$

5. $\frac{7}{60}$

Determine if the ratios are in proportion.

6. $\frac{10}{12}$ and $\frac{20}{24}$

7. $\frac{3}{4}$ and $\frac{6}{7}$

8. Alisa typed 50 words in two minutes while Jeremy typed 90 words in three minutes. Use unit rates to determine who typed at a faster rate.

Additional Work Area