

Advanced Chapter 8 Quiz Study Guide

Name Answer Key

- 8.1 → I can write a ratio as a percent.
- 8.2 → I can write equivalent percents, fractions, and decimals.
- 8.3 → I can use percents to solve problems.
- 4.3 → I can divide mixed numbers.
- 6.2 → I can use rates to compare quantities.

For numbers 1-4, write the number in two equivalent forms (8.2).

1.)  $7\frac{3}{5}$   
 $\frac{38}{5} = \frac{760}{100}$     7.60  
                               760%

2.) 62.5%  
       .625     $\frac{625}{1000}$

3.) 18.24  
 $18\frac{6}{25}$     1824%

4.)  $\frac{31}{50}$   
       0.62    62%

5.) 18 is 60 % of 30.

6.) 12 is 30% of 40.

7.) A community group has collected 2,000 cans of food for the food bank. The group has collected 48% of their goal. How many cans of food have they collected?

$\frac{48}{100} = \frac{960}{2000}$     960 cans

8.) Elizabeth is going on a 9 hour road trip. She has driven 15% of the trip. So far, how many hours has she driven?

$\frac{3}{20} \cdot \frac{15}{100} = \frac{1.35}{9}$     1.35 hours

9.)  $16\frac{2}{3} \div 4\frac{1}{6}$

$2\frac{50}{3} \cdot \frac{62}{25} = \frac{4}{1} = 4$

10.) Abby can buy an 8-pound bag of dog food for \$7.40 or a 4-pound bag of the same dog food for \$5.38. Which is the better buy?

$8 \overline{) 7.40} \quad 0.925$      $4 \overline{) 5.38} \quad 1.345$

The 8 pound bag