Lesson 3.9 Finding Percents

Use these methods to find the percent one number is of another number:

50 is what percent of 80?

$$50 = n\% \times 80$$

$$50 = \frac{n}{100} \times 80 \qquad 50 = \frac{80n}{100}$$

$$5000 = 80n$$

$$5000 \div 80 = 80n \div 80$$

$$62.5 = n$$

50 is 62.5% of 80.

$\frac{1}{4}$ is what percent of $\frac{5}{8}$?

$$\frac{1}{4} = n\% \times \frac{5}{8}$$

$$\frac{1}{4} = \frac{n}{100} \times \frac{5}{8} \qquad \frac{1}{4} = \frac{5n}{800}$$

$$800 = 20n$$

$$800 \div 20 = 20n \div 20$$

$$40 = n$$

$\frac{1}{4}$ is 40% of $\frac{5}{8}$.

Complete the following.

a

1. 12 is _____% of 20.

2. 15 is _____% of 100.

3. 0.9 is _____% of 6.

4. 1.8 is _____% of 18.

5. 48 is _____% of 64.

6. 19 is _____% of 95.

7. 1.8 is _____% of 6.

8. 12 is _____% of 32.

9. $\frac{3}{8}$ is _____% of $\frac{3}{4}$.

10. 0.6 is _____% of 0.5.

b

0.9 is _____% of 4.5.

16 is _____% of 25.

$\frac{1}{3}$ is _____% of $\frac{5}{6}$.

45 is _____% of 50.

16 is _____% of 40.

39 is _____% of 26.

5.6 is _____% of 2.8.

64 is _____% of 51.2.

1.4 is _____% of 5.6.

$\frac{7}{10}$ is _____% of $\frac{7}{8}$.