

NAME _____

Module 7 Ratio, Proportion, and Percent
Lesson 2 Finding Percents

Guided Practice

7.2

Set 1

Write as a percent.

1

$$\frac{13}{10}$$

$$\frac{13}{10}$$

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

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

$$100\% + 30\% = 130\%$$

2

3 to 400

3 to 400

$$\frac{3}{400}$$

0.0075

0.75%

Set 2

1

Eight hundred twenty people voted in a town election. Twenty-five percent voted for Mr. Brown. How many votes did Mr. Brown receive?

25% of 820

$$\frac{1}{4} \times \frac{820}{1} = \frac{205}{1}$$

Mr. Brown received 205 votes.

2

A grocery store had 600 customers one day. Thirty-two percent of the customers were new customers. How many new customers did the store have that day?

$$\begin{array}{l} 32\% \text{ of } 600 \\ 0.32 \times 600 \\ 192 \end{array}$$

The store had 192 new customers.

3

Solve: 0.25% of 400.

$$\begin{array}{l} 0.25\% \text{ of } 400 \\ 0.0025 \\ \times 400 \\ \hline 1.000 \end{array}$$

$$\frac{1}{\cancel{400}} \times \frac{\cancel{400}}{1} = 1$$

4

The number of cars sold in October was 250% of the number sold in September. If 82 cars were sold in September, how many were sold in October?

$$\begin{array}{l} 250\% \text{ of } 82 \\ 2.5 \times 82 \\ 205 \end{array}$$

There were 205 cars sold in October.

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Set 3

1

Are $\frac{6}{10}$ and $\frac{9}{14}$ in proportion?

$$\frac{6}{10} \stackrel{?}{=} \frac{9}{14}$$
$$6 \times 14 \neq 10 \times 9$$
$$82 \neq 90$$

NO

2

Are $\frac{10}{14}$ and $\frac{20}{28}$ in proportion?

$$\frac{10}{14} \stackrel{?}{=} \frac{20}{28}$$
$$\frac{10}{14} = \frac{10 \div 2}{14 \div 2} = \frac{5}{7}$$
$$\frac{20}{28} = \frac{20 \div 4}{28 \div 4} = \frac{5}{7}$$

YES

3

Which pair or pairs of ratios are in proportion?

$$\frac{2}{3} \text{ and } \frac{3}{10}$$

$$\frac{8}{12} \text{ and } \frac{2}{3}$$

$$\frac{6}{18} \text{ and } \frac{3}{9}$$

$$\frac{2}{3} \text{ and } \frac{3}{10} \quad 20 \neq 9 \quad \text{NO}$$

$$\frac{8}{12} \text{ and } \frac{2}{3} \quad 24 = 24 \quad \text{YES}$$

$$\frac{6}{18} \text{ and } \frac{3}{9} \quad 54 = 54 \quad \text{YES}$$

