9.4 (Page 334) Using

Using the Percent Proportion

The proportion below shown is called the PERCENT PROPORTION. It can be used to solve problems involving percent.

$$\frac{\text{Percentage}}{\text{Base}} = \text{Rate} \qquad \text{or} \qquad \frac{P}{B} = \frac{r}{100}$$

The percentage (P) is a number that is compared to another number called the base (B). The rate is a percent that always compares r to 100.

9.4 (Page 334) Using the Percent Proportion

Example: Express each fraction as a percent.

31 100 3\%

9.4 (Page 334)

Using the Percent Proportion

Example: Express each fraction as a percent.

$$\frac{1}{25}$$
 × 4 = $\frac{4}{100}$



9.4 (Page 334)

Using the Percent Proportion

Example: Express each fraction as a percent.

$$\frac{3}{5} \times 20 = \frac{60}{100}$$

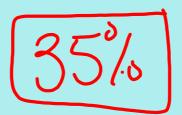


9.4 (Page 334)

Using the Percent Proportion

Example: Express each fraction as a percent.

$$\frac{7 \times 5}{20 \times 5} = \frac{35}{100}$$



9.4 (Page 334)

Using the Percent Proportion

Example: Express each fraction as a percent.

$$\frac{300}{8} = \frac{8r}{8}$$

9.4 (Page 334)

Using the Percent Proportion

When using the percent proportion, there are different ways of asking for different part of the proportion.

Proportion

$$\frac{3}{2} = \frac{75}{100}$$

3 is 75% of what number?

$$\frac{is}{of} = \frac{\%}{100}$$

9.4 (Page 334)

Using the Percent Proportion

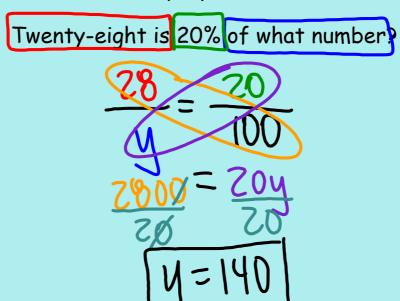
Example: Identify the percentage, base, and rate. Then write a proportion and solve.

$$\frac{100d - 303755}{100}$$

9.4 (Page 334) Using the Percent Proportion

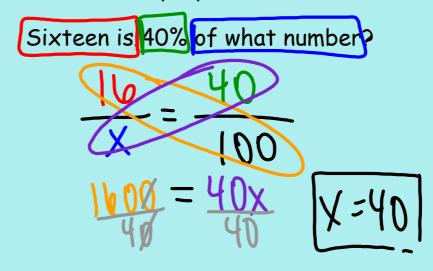
Example: Identify the percentage, base, and rate.

Then write a proportion and solve.



9.4 (Page 334) Using the Percent Proportion

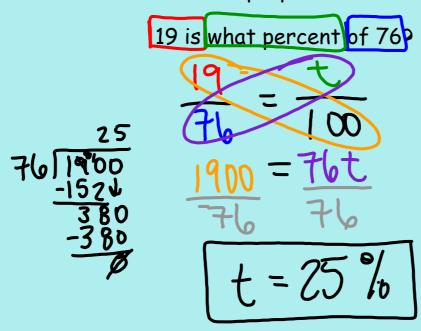
Example: Identify the percentage, base, and rate.
Then write a proportion and solve.



9.4 (Page 334) Using the Percent Proportion

Example: Identify the percentage, base, and rate.

Then write a proportion and solve.



9.4 (Page 334) Using the Percent Proportion

Example: Identify the percentage, base, and rate.

Then write a proportion and solve.

