

4.3: proportions

A proportion is an expression of the equality of two rates or ratios.

Determine whether the proportion is true or not.

$$\frac{15}{7} = \frac{17}{8}$$

$$\frac{2}{4} = \frac{54}{72}$$

The scale on plans is $1'' = 2 \text{ ft}$. Find the dim of a room $5'' \times 8''$.

$$\frac{16 \text{ pounds}}{12 \text{ days}} = \frac{20 \text{ pounds}}{14 \text{ days}}$$

The payment on a \$2500 loan is \$33.45. How much on a \$10,000 loan?

$$\frac{270 \text{ trees}}{6 \text{ acres}} = \frac{90 \text{ trees}}{2 \text{ acres}}$$

$$\frac{80 \text{ miles}}{2 \text{ hours}} = \frac{110 \text{ miles}}{3 \text{ hours}}$$

Solve (round to the hundredth).

$$\frac{12}{18} = \frac{A}{9}$$

$$\frac{28}{8} = \frac{12}{N}$$

$$\frac{A}{6} = \frac{2}{3}$$

$$\frac{0.7}{9.8} = \frac{3.6}{N}$$

$$\frac{5}{12} = \frac{A}{8}$$