
Proportional Reasoning

A proportion is a relationship that says two ratios or two rates are equal.

Examples: $\frac{1}{2} = \frac{4}{8}$ $\frac{2 \text{ km}}{3 \text{ h}} = \frac{6 \text{ km}}{9 \text{ h}}$

Example 1

Solve each proportion statement:

a) $\frac{x}{3} = \frac{8}{6}$

b) $\frac{10}{x} = \frac{6}{9}$

Example 2

There are 72 players on 8 baseball teams. Determine the number of players on 2 teams.

Example 3

Electricity costs 11.58 cents for 2 kWh. How much does 30 kWh cost? Round to the nearest cent.

Example 4

A farmer can plant three potato plants per $0.5 m^2$. How many potato plants can she plant in an area of $85 m^2$?



Practice the following:

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Challenge Yourself!!! Page 68 #15, 19, 20

Outcome:

N5 - Solve problems that involve ratios, rates, and proportional reasoning