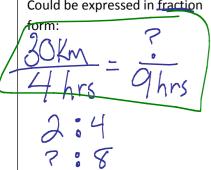


Math 8 Unit 2 2.3 Proportional Reasoning

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

Could be expressed in fraction



You can solve proportional reasoning problems using several different methods.

Example: A potato farmer can plant three potato plants per 0.5 m². How many potato plants can she plant in an area of 85 m²?

Use a unit rate:

Use a proportion: 3plants = (5,5m² 5

Electricity costs 11.58 cents for 2 kWh. How much does 30 kWh cost? Give your answer to the nearest

It would cost 173,7 cents for 30km.

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

Show how you got your answer in 2 different ways!

X=18 players on 2 teams

72 players 8 teams = 9 players/team = 18 players on 2 teams

Determine the missing values:

a)
$$\frac{3}{?} = \frac{18}{24} = \frac{?}{12}$$
b) $\frac{48km}{\$16} = \frac{144km}{\cancel{4}\cancel{2}\cancel{8}} = \frac{?}{\$64}$

David can saw a log into three pieces in 7minutes. If he continues sawing at a constant rate, how long will it take him to saw a similarly log into six pieces?

H would take 14 minutes for 6 pieces.