

Proportions

A _____ is a statement that two
_____ or _____ are equivalent.

Remember
_____ are
equivalent if in the
simplest form they
make the
_____ ratio.

$\frac{1}{3}$ and $\frac{2}{6}$ are equivalent ratios

— = — is a proportion

Ex. The members of the PTA are ordering pizza for a meeting. They plan to order 2 cheese pizzas for every 3 pepperoni pizzas they order. How many cheese pizzas will they order if they order 15 pepperoni?

$$\frac{2 \text{ cheese}}{3 \text{ pepperoni}} = \frac{\text{cheese}}{15 \text{ pepperoni}}$$



You can also use _____ to solve _____. Finding a unit rate may help you _____ equivalent rates.

EX. Mrs. Jones's sprinkler system has 9 stations that water all the parts of her front and back yard. Each station runs for an equal amount of time. If it takes 48 minutes for the first 4 stations to water, how long does it take to water all parts of her yard?

$\frac{\text{minutes}}{\text{stations}}$ Is this in simplest form?

Use simplified rate to answer the question

$$\frac{\text{minutes}}{\text{station}} = \frac{\text{minutes}}{\text{stations}}$$

