Ratio Rates and Proportions

Ratio	Rate	Unit Rate	Proportion
Definitions:	Definition:	Definition:	Definition:
Examples:	Examples:	Examples:	Examples:
	Not a Rate:	Not a Unit Rate:	
$\dfrac{6}{3}$	Change to a rate	Change to a unit rate	Write a proportion

Ratio

A _____ of two _____.

The _____ in which the numbers are written is important.

Written three ways: 3 boys to 5 girls.

Rate

A comparison of two _____ with different _____ of _____.

126 miles driven in 2 hours.

Unit Rate

A rate with a comparison of _____ unit.

Often uses the word _____.

Must have a _____ in the _____. Must compare different _____.

_____ must be different.

36 ounces of juice in 3 bottles. $$\frac{ounces}{bottle} = - = -$$

Cross Multiply and Solve:

Don't forget to label your answer

Proportion

A pair of _____ ratios.

Set up a proportion to find a missing value.

There are 4 boys to every 5 girls. How many boys would you expect if there were 25 girls?

$$\frac{boys}{girls} = \text{—} = \text{—}$$ Cross Multiply and Solve:

Don't forget to label your answer

Proportion or Not?

1) Cross Multiply- Butterfly

2) Unit match _____ or _____ but not _____.

Find Unit Rate First then Multiply

Find the unit rate. Use multiplication to find the missing value.

Emily earns $96 after working for 8 hours.

Find the unit rate: $$\frac{dollars}{hours} = \text{—} = \text{—}$$

Cross Multiply and Solve:

How much money would she earn if she worked 20 hours?

_____ for one hour. Multiply by _____.

Percent Word Problems

Is/of   —— = ——
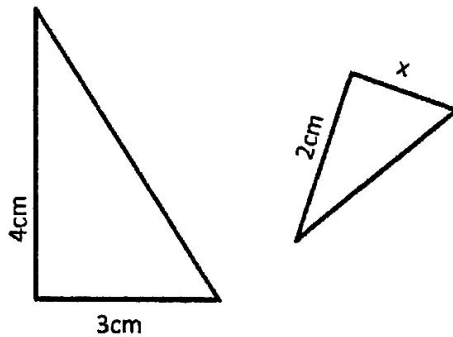
part/whole   —— = ——

Similar Figures

Same _____ but not necessarily the same _____.

Set up a _____.

Cross _____ to solve.

Add units.

Figures can be turned and/or flipped.

4cm

3cm

2cm

x