Ratios and Unit Rates

Ratio – a comparison of two quantities

Can be written three ways

Example: ratio of circles to squares

3 to 4 3:4

The order of the numbers must match the order of the words.

It says circles to squares – since there are 3 circles 3 come first or goes on top in the ratio.

Rate – tells how many units of a quantity there are for a number of units of another quantity

Per – for each

Example: 12 miles

2 hours

Unit rate – How many for one

Finding the unit rate

If John runs 12 miles in 2 hours, how many miles does he run in 1 hour?

1. Set up your “skeleton”

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Add your original rate. Use labels!!!!!

12 miles \_\_\_\_\_\_\_\_\_\_\_ = miles

2 hours hours

1. Look at the problem to see which amount you need to change to 1. Put a 1 on the last line across from the same word!

12 miles \_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_miles

2 hours 1 hour

1. Divide by the number to make it a one

12 miles \_\_\_\_2\_\_\_\_\_\_\_\_ = \_\_6\_\_miles

2 hours 2 1 hour

6 miles in 1 hour is the unit rate because unit = 1