

5.3 (pg 206)

Rates & Unit Rates

Rate is a ratio that compares two quantities with different kinds of units.



Ex. $\frac{48 \text{ laps}}{40 \text{ minutes}}$

Sometimes said 'per'.

Why ya buggin?

Unit Rate is a rate that has a denominator of **1** unit

Ex. $\frac{7.5 \text{ laps}}{1 \text{ minute}}$

I believe I can fly...



To solve for unit rate **DIVIDE** the numerator and denominator of the rate by the **denominator**.

You looking at me?



$$\frac{144 \text{ miles}}{4 \text{ hours}} = \frac{36 \text{ miles}}{1 \text{ hour}}$$

Diagram illustrating the simplification of the rate. A curved arrow above the equation points from the numerator '144 miles' to '36 miles' with the label '÷4'. A curved arrow below the equation points from the denominator '4 hours' to '1 hour' with the label '÷4'.

Can be said “36 miles per hour”

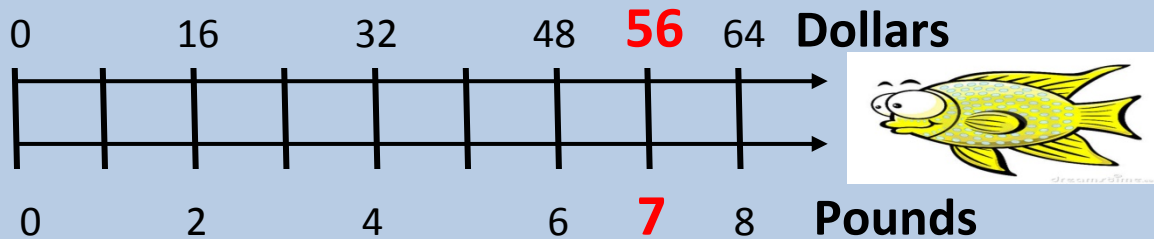
Tip:

Place money on top if you want to find the unit rate for one item.

Finding Equivalent Rates: See notes on Finding Equivalent Ratios lesson 5.2

Using a double number line:

Ex: You buy 2 pounds of fish for \$16...what is the cost of 7 pounds of fish?



So, the cost for 7 pounds of fish is \$56