

UNIT RATE : ALWAYS OUT OF 1!

def

RATE : A RATE IS A RATIO COMPARING TWO QUANTITIES OF DIFFERENT UNITS.

def

UNIT RATE: A RATE IN WHICH ONE VALUE IS EQUAL TO 1.

RATIO

15:5

15 to 5

$$\frac{15}{5}$$

RATE

15 CHARACTERS

5 SECONDS

UNIT RATE

3 CHARACTERS

1 SECOND

=

UNIT RATE ALWAYS OUT OF 1!

EXAMPLES:

SAM PICKED 45 ORANGES IN 5 MINUTES.

WRITE AS A UNIT RATE OF ORANGES PER 1 MIN.

$$\frac{\text{ORANGES (O)}}{\text{MINUTES (M)}} = \frac{45}{5} = \frac{x}{1} \quad \text{9 oranges per min.}$$

TO GET UNIT RATE  
DIVIDE BY THE  
DENOMINATOR.

JAY DROVE 360 MILES ON 24 GALLONS OF GAS.

WHAT IS THE UNIT RATE OF MILES PER GALLON?

$$\frac{\text{MILES (M)}}{\text{GALLON (G)}} = \frac{360}{24} = \frac{x}{1} = 15 \text{ miles per gallon}$$

$$\begin{array}{r} 15 \\ 24 \overline{) 360} \\ \underline{24} \phantom{0} \\ 120 \\ \underline{-120} \\ 0 \end{array}$$

$$\begin{array}{r} 24 \\ \times 5 \\ \hline 120 \end{array}$$