

Unit Rates

Unit rate - a comparison (ratio) of two measurements w/ different units

$$\frac{125 \overset{\div 2}{\text{miles}}}{2 \text{ hours}} = \frac{62.5 \text{ mi}}{1 \text{ hour}} \text{ OR } \begin{array}{l} 62.5 \text{ mi/hr} \\ 62.5 \text{ mph} \end{array}$$

$$\begin{array}{r} 062.5 \\ 2 \overline{)125.0} \\ \underline{-12} \\ 05 \\ \underline{-4} \\ 10 \\ \underline{-10} \\ 0 \end{array}$$

*denominator always
is 1

7 inches of rain in 28 days

$$\frac{7 \text{ in}^{\cancel{28}}}{28 \text{ days}} = \frac{0.25 \text{ in}}{1 \text{ day}} \quad 0.25 \text{ in/day}$$

*time always goes on bottom

$$\frac{7}{28} = \frac{1}{4}$$

14.5 oz. bag of chips for \$3.19

$$\frac{\$3.19^{\cancel{14.5}}}{14.5 \text{ oz}} = \frac{\$0.22}{1 \text{ oz}}$$

*\$ always goes on top

$$\begin{array}{r} 0.22 \\ 14.5 \overline{) 3.190} \\ \underline{-290} \\ 290 \\ \underline{-290} \\ 0 \end{array}$$

24 oz. jar of salsa for \$2.88

$$\frac{\$2.88}{24 \text{ oz}} = \frac{\$0.12}{1 \text{ oz}} \quad \$0.12/\text{oz}$$

$$\begin{array}{r} 0.12 \\ 24 \overline{) 2.88} \\ \underline{-24} \\ 48 \\ \underline{-48} \\ 0 \end{array}$$

130 miles on 4.2 gallons of gas

$$\frac{130 \text{ mi}}{4.2 \text{ gal}} = \frac{\text{mi}}{1 \text{ gal}}$$

$$\frac{4.2 \text{ gal}}{130 \text{ mi}} = \frac{\text{gal}}{1 \text{ mi}}$$

10 oranges for \$2.00

$$\frac{\$2.00}{10 \text{ oranges}} = \frac{\$0.20}{1 \text{ orange}}$$

$$\frac{2}{10}$$