Vocabulary

Unit Ratio - a comparison of two quantities in which the denominator is unit.

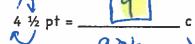
Dimensional analysis is the process of including units of measurement as factors when you compute.

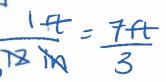
Conversions

Customary Conversions			
Type of Measure	Larger Unit	\rightarrow	Smaller Unit
Length	1 foot (ft)	=	12 inches (in.)
	1 yard (yd)	=	3 feet
	1 mile (mi)	=	5,280 feet
Weight	1 pound (lb)	=	16 ounces (oz)
	1 ton (T)	=	2,000 pounds
Capacity	1 cup (c)	=	8 fluid ounces (fl oz)
	1 pint (pt)	=	2 cups
	1 quart (qt)	=	2 pints
	1 gallon (gal)	=	4 quarts

Guided Practice:







A larger grouper can weigh 1/3 ton. How much does a larger grouper weigh to the nearest pound?

Partner Talk

The world's narrowest electric vehicle is about 35 inches wide. How wide is this vehicle to the nearest

foot?

 $\frac{35 \text{ in}}{1} \times \frac{1 + 1}{17 \text{ in}} = \frac{35 + 1}{12} = 2\frac{11}{12} + 1 = \frac{35 + 1}{12} = \frac{3$

Building on the Essential Question - How can you use ratios to convert units of measurements