


Customary Measurement


Length, Capacity, and Weight

By Scott Mangum



Customary Length


- A mile is about half the length of Talladega Super Speedway.
- Talladega is 2.9 miles long.



Talladega Super Speedway


Customary Length

- A yard is about the length of a walking stick.




Customary Length

- A foot is about the length of a floor tile.



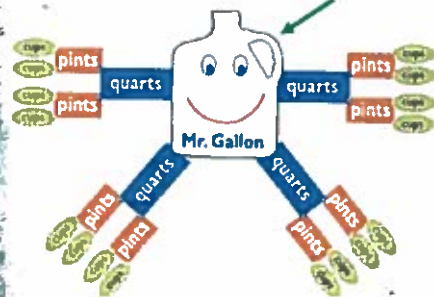
Customary Length

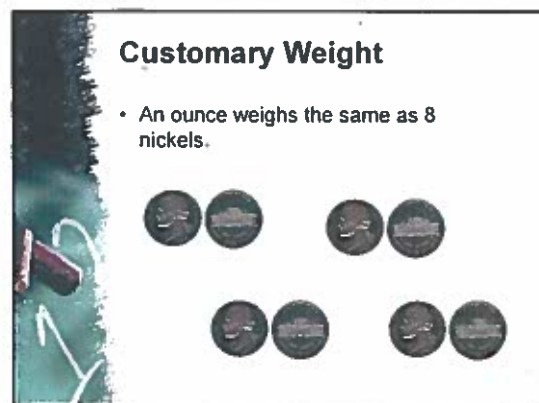
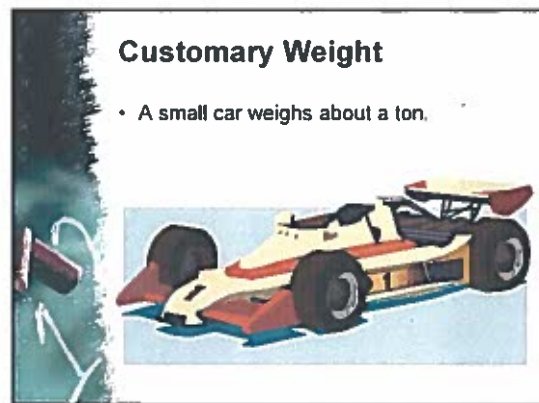
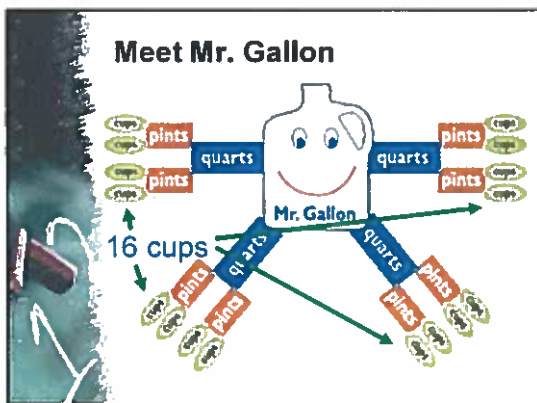
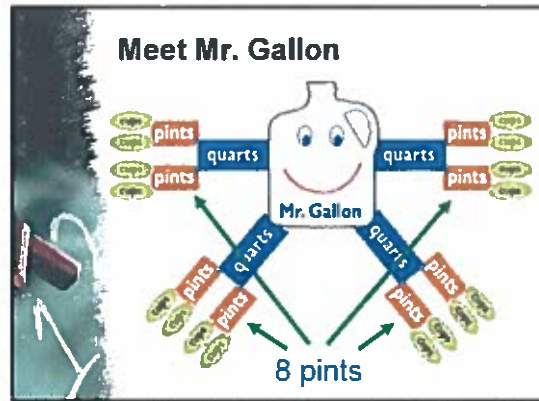
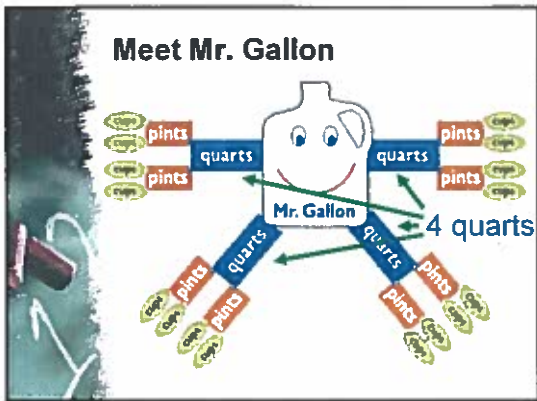
- An inch is about the length of a drink bottle top.



Meet Mr. Gallon

1 gallon

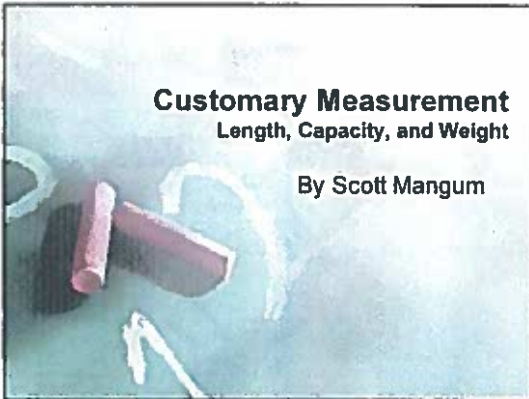




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This represents about 1 mile.

Talladega Super Speedway


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Customary Length

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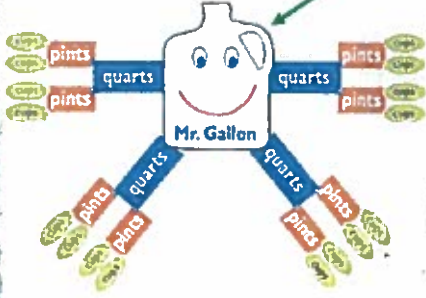
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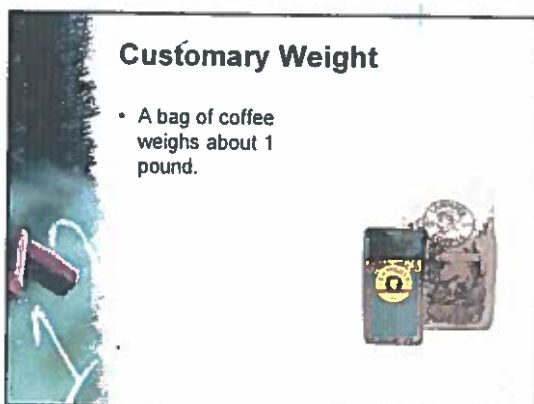
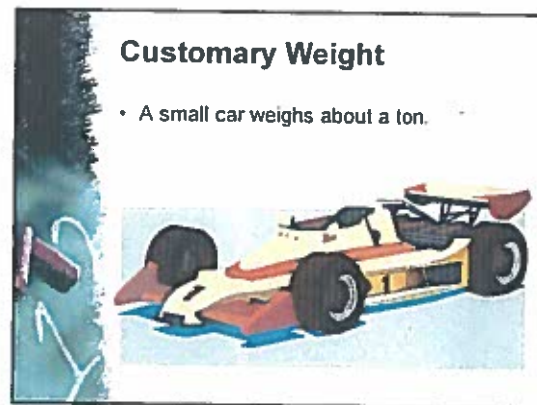
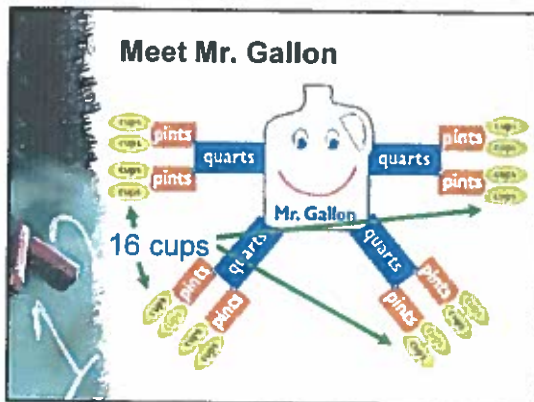
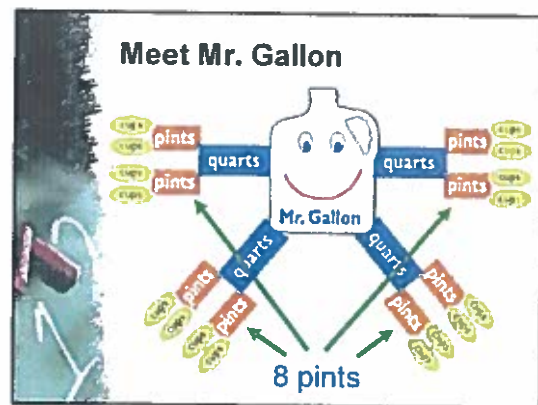
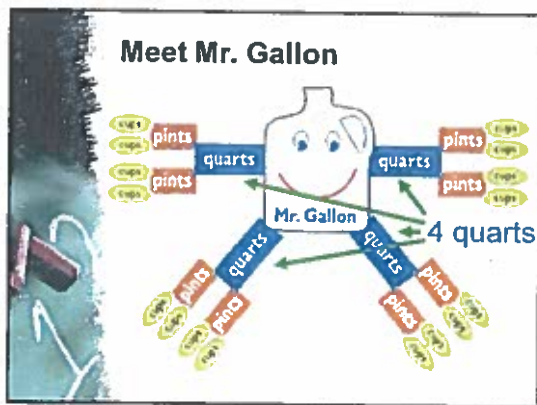
1 gallon



quarts

pints

cups



4-5 Convert Measurement Units

<u>Length</u>	<u>Weight</u>	<u>Capacity</u>
1 inch (in) 1 foot (ft) = 12 in 1 yard (yd) = 3 ft 1 mile (mi) = 1760 yds	1 ounce (oz) 1 pound (lb) = 16 oz 1 ton (T) = 2000 lbs	1 fluid ounce (fl oz) 1 cup (c) = 8 fl oz 1 pint (pt) = 2 c 1 quart (qt) = 2 pt 1 gallon (gal) = 4 qt

Converting Measurements:

Steps:

- 1) Set up a ratio (using a ratio that includes what you are converting to)
- 2) Divide out common units, leaving the desired units (**must be on opposite sides of the division bar**)
- 3) Multiply
- 4) Write your answers with the new label

Examples:

Convert 20 feet to inches

Convert 100 ounces to pounds

Marco mixes $\frac{1}{4}$ cup of fertilizer with soil before planting each bulb.
How many fluid ounces of fertilizer does he use per bulb?

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- 4) Write your answers with the new label

Examples:

Convert 20 feet to inches

$$\frac{20\cancel{ft}}{1} \times \frac{12in}{1\cancel{ft}} = \frac{240in}{1} = 240 \text{ inches}$$

Convert 100 ounces to pounds

$$\frac{100 \cancel{\text{oz}}}{1} \times \frac{1 \text{ lb}}{16 \cancel{\text{oz}}} = \frac{100}{16} = \boxed{6.25 \text{ lbs.}}$$

$$\begin{array}{r} 2 \overline{)100 \ 16} \\ 2 \overline{)50 \ 8} \\ \underline{25 \ 4} \end{array}$$

$$\begin{array}{r} 6.25 \\ 4 \overline{)25.00} \\ \underline{-24} \downarrow \\ 10 \\ \underline{-8} \downarrow \\ 20 \end{array}$$

Marco mixes $\frac{1}{4}$ cup of fertilizer with soil before planting each bulb.

How many fluid ounces of fertilizer does he use per bulb?

$$\frac{1}{4} = 0.25$$

$$\frac{0.25 \text{ cup}}{1} \times \frac{8 \text{ fl. oz}}{1 \text{ cup}} = \frac{2}{1} = \boxed{2 \text{ fl. oz.}}$$

$$\begin{array}{r} 24 \\ 0.25 \\ \times \quad 8 \\ \hline 2.00 \end{array}$$