Imperial System of Measurement

- -The Imperial System is a system of measurement in which all units are based on British units.
- It is still used in the United States
- It is commonly used in construction and cooking

Common Imperial Units

Length: Inch (in or "), foot (ft or '), yard (yd), mile (mi)

i.e. 6 inches can be written as 6 in. or 6"

10 feet can be written as 10 ft. or 10'

5 feet 8 inches can be written as 5'8"

Volume: Fluid ounce (floz), cup (c), pint (pt), gallon (gal), teaspoon (tsp), tablespoon (tbsp), quart (qt)

Weight: Ounce (oz), pound (lb), ton (tn)

Temperature: Degree Fahrenheit (°F)

Common Conversions within the Imperial System

Length	Volume	Weight
12 inches = 1 foot	3 teaspoons = 1 tablespoon	16 ounces = 1 pound
3 feet = 1 yard	8 fluid ounces = 1 cup	2000 pounds = 1 ton
5280 feet = 1 mile	2 cups = 1 pint	
	2 pints = 1 quart	
	4 quarts = 1 gallon	

Ex/ Brian had a summer job at Wanson Lumber. He frequently had to fill orders for $2" \times 4"$'s.

- a) What is a 2×4 ?
- b) What unit of measure are they using?
- c) How many inches are in a foot?
- d) How many feet are in a yard?
- e) Do you know what fractions of an inch are on most standard rulers and tape measures?

Ex/ Convert the following from feet to inches:

c) 6'2"

a) 7 feet

Ex/ Convert the following from inches to feet:

Ex/ Cindy works at Vienna Bakery. She is an apprentice baker.

- a) What Imperial units of measurement does she use?
- b) A cake recipe calls for 6 pints of blue berry juice. How many quarts is this?
- c) A batch of rye bread calls for 20 pints of water. How many gallons is this?

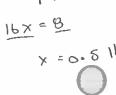
Ex/ Mark owns a restaurant. He bought a 50-gallon drum of ketchup at a wholesale store. For the tables he has 1 pint squeeze bottles that he fills with ketchup. How many bottles can Mark fill from this drum?

$$\frac{200 \text{ gt}}{\text{x pt}} = \frac{1 \text{ gt}}{2 \text{ pt}}$$

Ex/Lana works at Maier Hardware. She is in charge of stocking the fastener department (nails, screws, bolts, etc).

- a) What units would you use to measure nail weight?
- b) How many ounces are in a pound?
- c) How many tons are in a pound?
- d) If Lana sells 5 lbs of 1/4" nails, how many ounces did she sell?
- e) If she has 8 ounces of 3-inch Ardox nails, how many pounds is this?

Ex/ Convert the following measures:



$$\frac{3 \text{ lbs}}{\text{x oz}} = \frac{1 \text{ lb}}{1602}$$

$$\text{x = 48}$$

g) 6 c =
$$\frac{3}{}$$
 pt

$$\frac{6c}{x \text{ pt}} = \frac{2c}{1 \text{ pt}}$$

$$2x = 6$$

$$\frac{5 \text{ gal}}{\text{x gt}} = \frac{1 \text{ gal}}{4 \text{ gt}}$$

$$x = 20 \text{ gt}$$

$$\frac{20 \text{ gt}}{\text{v pt}} = \frac{1 \text{ gt}}{2 \text{ pt}}$$

$$x = 40 \text{ pt}$$

Practice: Handout - Imperial Measure

$$\frac{8 \text{ gt}}{x \text{ gal}} = \frac{4 \text{ gt}}{1 \text{ gal}}$$

$$\frac{4x = 8}{1 \text{ gal}}$$

$$\frac{3c}{y \text{ floz}} = \frac{1c}{8 \text{ floz}}$$

$$\dot{x} = 24$$

h) 5000 lbs =
$$\frac{2.5}{}$$
 ton

$$\frac{4 \text{ mi}}{\text{x ft}} = \frac{1 \text{ mi}}{5280 \text{ ft}}$$

$$\text{X} = 21120 \text{ ft}$$