## **IMPERIAL AND METRIC MEASUREMENT - ASSIGNMENT #2**

Use your conversion chart and a calculator to complete the questions below.

- 1) Calculate the cost before taxes to carpet a room that measures 12 ft by 17 ft. The carpet cost \$24 per square yard. (There are 3ft in a yard, so there are 9ft in one sq yd)
- 2) Steve owns a restaurant in Arizona. He bought a 55 gallon drum of ketchup at a wholesale store. For the tables, he has  $\frac{1}{2}$  pint squeeze bottles that he fills with ketchup from the drum. How many bottles can he fill from the drum of ketchup?
- 3) The cost of porcelain tile flooring is \$51.25/m<sup>2</sup>. The Smith family is installing these tiles in the rectangular foyer of their home, which measures 15ft by 12 ft. Find the cost of flooring before tax?
- 4) The school gym floor needs to be resurfaced. Hardwood flooring costs \$ 6 per square foot plus \$ 2.50 per square foot for installation. The gym measures 180 ft by 220 ft.
- A) How large is the gym floor in square feet?
- B) How much wouldd it cost to buy the hardwood flooring for the gym?
- C) How much would it cost to install the hardwood flooring in the gym?

$$\frac{12ft}{3ft} = \frac{x}{1yd}$$

$$x = 4yds$$

$$\begin{array}{c} 3) & 15ft = 4.572 \text{ m} \\ 12ft = 3.6576 \text{ m} \\ 1ft = 0.3049 \text{ m} \end{array}$$

Area = 
$$15ft \times 12ft = 4.572m \times 3.6576m$$
  
=  $16.722m^2$ 

