Name:_____

Math 10W Chapter 4.1-4.2 Assessment Quiz

*show all of your work.

1. The forecast high temperature for Seattle is 53°F. What is this temperature in degrees Celsius?

$$C = \frac{5}{9}(F - 32)$$

$$C = \frac{5}{9}(53 - 32) = 11.7°C$$

2. Water boils at 100°C. What is this temperature in degrees Fahrenheit?

$$F = \frac{9}{5}C + 32$$

$$= \frac{9}{5}(100) + 32$$

$$= 212°F$$

3. Which unit – ounce, pound or ton – would you use to express the weight of the following:

a) Dump truck   Ton

b) Dresser   Pound

c) Frog   Ounce

d) Fridge   Pound

e) Snack size bag of potato chips.   Ounce

4. A cylindrical barrel of rainwater has a radius of 1 foot 6 inches and a height of 4 feet. If the barrel is full of water, how much does the water weigh? (1 cubic foot of water weighs about 62 pounds).

$$V = \pi r^2 h$$

$$V = \pi (1.5)^2 (4)$$

$$V = 28.2 \text{ ft}^3$$

$6'' = 0.5'$

So $1'6'' = 1.5'$

WEIGHT $= 28.2 \times 62 = 1753$ pounds