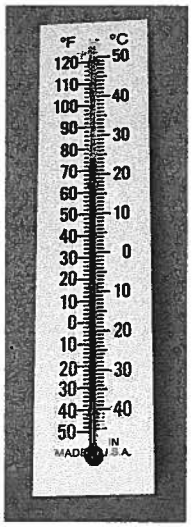
Name:_____ Block:_____ Date:_____

AWM10 **Ch. 4 Review** Assignment

PART A: TEMPERATURE (show all work)

To convert celsius to fahrenheit use the formula: $F = \frac{9}{5}C + 32$ Units are °F (imperial units)

To convert fahrenheit to celsius use the formula: $C = \frac{5}{9}(F - 32)$ Units are °C (metric units)



1. The melting point of Ice Is 32°F.

   a) Draw an arrow at 32°F. on the thermometer at the right.

   b) What metric temperature equals 32°F.? _____°C.

   c) Use metric units to write these three temperatures at which It would snow.
   _____°C _____°C _____°C

   d) Use imperial units to write a positive and a negative temperature at which it would snow.
   _____°F _____°F

2. Express each temperature in degrees Fahrenheit, to the nearest tenth of a degree if necessary.

   a) -2°C b) 0°C c) 21°C

3. Emily is the manager of an arena. She keeps the temperature of the ice at 16°F for hockey and 22°F for figure skating and 14°F for curling. Express each temperature in degrees Celsius, to the nearest degree.

   a) for hockey b) for figure skating c) for curling

4. The temperature on the moon can change from -153°C at night to 107°C during the day. What is the temperature difference in degrees Fahrenheit?

PART B: UNIT CONVERSIONS (show all work)

5. Express each capacity in the units given:

a) 1.5 qt. = _____ fl. oz. (US) c) 1/2 qt. = _____ L

b) 9 gal. = _____ qt. d) 2004 mL = _____ L

6. Complete. If necessary, round to two decimal places.

a) a fish pond, 6.5 kL _____ L

b) a jar of mandarine oranges, 540 mL _____ L

c) a bottle of baby oil, 592 mL _____ fl oz (US)

7. Compare. Write >, < or = to make each statement true.

a) 1 qt. ☐ 1 L b) 5 mL ☐ 5 fl oz c) 3 gal ☐ 3 L d) 1 qt. ☐ 1 gal

8. Autumn works for a swimming pool company. To determine the amount of chlorine needed for a pool, she needs to calculate the capacity in gallons. A pool has a capacity of 25 000 L. What is the capacity in gallons?

9. Express each mass to the nearest tenth of a unit.

a) a large box of cereal, 700g. _____ kg

b) a container of curry powder, 1.25 oz _____ g

c) a capybara, from South America, 75 lb _____ kg

d) a slice of bread, 25 g _____ mg

e) an empty 747 jet, 74 000 kg _____ t

10. Emma, who is training for a race, read the following on a soup label: in a 250 mL serving, there are 600 mg potassium and 23 g carbohydrates.

a) How many grams of potassium are in 250 mL?

b) How many milligrams of carbohydrates are in 250 mL?

11. The mass of a penny is 4.54 g. How many ounces is this?