Mass/Volume/Temp Conversions Hand In

1. Convert the following:
   a. 47 kg = _____lb _____ oz

   b. 4 lb 31 oz = _____lb = _____ kg

2. Jilly weighs 170 lbs. What is her weight in Kilograms?

3. At birth, Johan weighed 8 pounds 11 ounces.

   a. What would Johan's weight be in ounces?

   b. Why do you think newborns' weights given in pounds and ounces and not rounded to the nearest pound? Or just in ounces alone?

4. What is the weight of:

   a. a 5.5 pound roast, expressed in kilograms?

   b. a 71 kg person, expressed in pounds?

5. A box of baseballs arrives at Vinny's sporting goods store. The box of balls weighs 266 oz and there are 50 baseballs in the box. Vinny discards the box, which weighed 1 pound. What is the weight of each baseball in grams?

6. Krystina is stacking flats of 355 mL bottles of water on a shelf. If there are 24 bottles in a flat, how much will 12 flats weigh? Ignore the weight of the plastic bottles and the cardboard flat.
   a. in kilograms?
   b. in pounds?

7. Convert the following Metric area values as indicated:

   a. 1,200 $cm^2 \rightarrow m^2$

   b. 8.54 $km^2 \rightarrow m^2$

8. Convert the following Imperial area values as indicated *(round to 1 decimal)*:
   a. 123 $in^2 \rightarrow ft^2$

   b. 11.8 $yd^2 \rightarrow mi^2$

9. Convert the following area values as indicated *(round to 1 decimal):*

a. 14.1 m^2 → yd^2

b. 517 cm^2 → in^2

10. Convert the following to Fahrenheit

a) 10° C _____

b) 40° C _____

c) 100° C _____

d) 0° C _____

e) -20° C _____

11. Convert the following to Celsius

a) 32° F _____

b) 350° F _____

c) 70° F _____

d) 0° F _____

e) 212° F _____