Simplify all answers and show your work!

1) 3 qt = ________ cups

2) 453 mg = ________ g

3) $\frac{5}{6}$ ft = ________ in.

4) 150 sec = ________ min

5) 9.5 km = ________ m

6) 36 cm = ________ in

(1 in = 2.54 cm)

7) 9 L = ________ gal

8) 5 ft 10 in = ________ in

9) 8 lbs 3 oz = ________ oz.

(1 gal ≈ 3.78 L)

10) Write the following decimals as percents:
    a) 0.87
    b) 2.49
    c) 0.108

11) Write the following percents as decimals:
    a) 1.87%
    b) 20.9%
    c) 0.06%

12) Kari weighs 235 pounds. How much does Kari weigh in kilograms? (2.2 lbs ≈ 1 kg.)

13) Write as a fraction in lowest terms:
    a) 12.5%
    b) $16\frac{2}{3}$

14) A dose of Dayquil® is approximately 30 mL, and the directions state to take every 4 hours as needed, not to exceed 6 doses in a 24-hours period. If Tony has the flu and has to take a dose of Dayquil® for five days, 6 times a day, how many liters of Dayquil® does he take in those five days?

15) The high temperature for a typical day in December is 54° Fahrenheit. What is this temperature in degrees Celsius? ($F = \frac{9}{5}C + 32$, $C = \frac{5(F - 32)}{9}$)
16) A local electronics store is having a sale on DVD recorders. A recorder that is regularly $169.99 is on sale for 20% off.
   a) What is the discounted price of the DVD recorder? 
   b) If sales tax is 6%, what is the final discounted price including sales tax?

17) In a math class with 20 students, 12 of them are business majors. What percent of the students are business majors? (Round to the nearest percent, if necessary.)

18) Soda is being sold in 12-packs as 3 for $11. At that rate, how much would 5 12-packs of soda cost?

19) The price of a blazer fell from $36.00 to $25.00. Find the percent of decrease in price. (Round to the nearest percent, if necessary.)

20) Tim needs to buy 2 m 45 cm of wiring, which costs $3.99 per meter. What is the cost of the amount of wiring Tim needs to buy?

21) A can of peaches contains 16 oz. Rob discovers that 5 oz were syrup and the rest was fruit. How many grams of fruit are in the can? (1 oz. ≈ 28.35 g)

22) Shawna brings two 3 L jugs of iced tea to a family reunion. How many 250 mL servings are in one jug?