Simplify all answers and show your work!

1) 9 cups = ________ pints
2) 334 mm = ________ m
3) \(\frac{3}{4}\) ft = ________ in.

4) 105 min = ________ hours
5) 52.3 g = ________ mg
6) 12 cm = ________ in
   (1 in = 2.54 cm)

7) 5.2 gal = ________ L
   (1 gal \(\approx\) 3.78 L)
8) 6 ft 2 in = ________ in
9) 7 lbs 8 oz = ________ oz

10) Write the following decimals as percents:
    a) 0.92
    b) 5.69
    c) 0.075

11) Write the following percents as decimals:
    a) 2.3 %
    b) 54.3 %
    c) 0.081 %

12) One of the heaviest men on record weighed 635 kg. How many pounds is this?
    (2.2 lbs \(\approx\) 1 kg.)

13) Write as a fraction in lowest terms:
    a) 62.5%
    b) \(\frac{83}{3}\)%

14) The maximum dose of Tylenol in a 24-hour period is 4 grams. Grant has the flu, and in one day he took two doses of Dayquil, which contains 650 mg of Tylenol in each dose. That same day, he took 2 Extra Strength Tylenol, which contain 500 mg of Tylenol in each dose, and a dose of Nyquil containing 1000 mg of Tylenol that evening before bed. How many more mg can he take before he reaches the maximum dose for the day?
15) The low temperature on the night that it didn’t snow was 34° F. What was the temperature in Celsius?
\( F = \frac{9}{5}C + 32 \), \( C = \frac{5(F - 32)}{9} \)

16) Assume that one dollar is equal to 0.79 Euros (This is European money). If 500 g of an item is selling for 2 euros, what is it’s price in dollars per kg?

17) Bananas cost $1.09 per kg. A bunch of bananas weighs 1.6 kg. How much will the bunch cost?

18) Mack changed the oil on 4 cars today, and the shop he works at saves the used oil to recycle. One car’s motor held 3.6 qts of oil, another’s held 5.5 qts, and the other two held 5 qts. How many gallons of oil did he have to recycle at the end of the day?

19) An I Beam has a length of 36 cm. How long is the I Beam in inches? (1 in = 2.54 cm)

20) A stretch of road 1.863 km long has 230 parking spaces of equal length painted on the pavement. How many meters long is each parking space?

21) On March 3, gold was selling for $915.86 per ounce. If Tara goes on a vacation where she gets to pan for gold, how much would her findings be worth on March 3 if she found 623 grams of gold? (1 ounce ≈ 28.35 grams)