Simplify all answers and show your work!

1) 1 km = _______ m

2) 1 L = _______ mL

3) 9.75 m = ______ cm

4) 368 g = ______ kg

5) 5 quarts = _______ pints

6) Percent means per ______________

7) 23 m 82 cm = __________ m

8) \(4 \frac{2}{3} \text{ ft} = \) _______ in.

9) 96 cups = _______ gal

10) 30 oz. = _______ lbs.

11) How many inches tall is a person who is 5 foot 9 inches tall?

12) A bottle contains \(\frac{1}{2}\) L of water. How many 50 mL servings can this be split into?

13) What is the weight in kilograms of someone who weighs 140 pounds? Round to the nearest kg. (1 kg = 2.2 lbs.)

14) Lisa needs 3 m 57 cm of blue fabric and 5 m 82 cm of yellow fabric. If the fabric is $4.95 per meter, how much will her purchase be (before tax)?

15) The average high temperature in Augusta, GA for the month of September is 85° Fahrenheit. Convert this temperature to Celsius. \(C = \frac{5(F - 32)}{9}, \quad F = \frac{9 \cdot C + 32}{5}\)
16) The distance to Atlanta from Augusta is about 155 miles. How many kilometers is this? (1 mile ≈ 1.61 km)

17) A bottle of apple juice contains 24 oz. Find the number of quarts of apple juice in a case of 16 bottles.

18) A school swimming pool uses 1200 mL of chlorine a day for upkeep. How many liters of chlorine are used for 20 days during the month?

19) A 20-fl. oz. bottle of cola contains 2.5 servings. How many fluid ounces are in one serving?

20) Eighty grams of grass seed are used for every 100 m² of lawn. How many kilograms of grass seed are needed to cover 2500 m² of lawn?

21) A patient’s temperature is recorded at 36° Celsius. What temperature is this in Fahrenheit?

\[ C = \frac{5(F - 32)}{9}, \quad F = \frac{9 \cdot C}{5} + 32 \]

22) 16 is what percent of 80? \hspace{1cm} 23) What number is 7.5% of 72? \hspace{1cm} 24) 120% of what number is 6?