

English – Metric Equivalents

1 inch = 2.54 cm
 1 foot = 30.5 cm
 1 ounce = 28.35 grams
 1 mile = 5280 feet

1 kilogram = 2.2 pounds
 1 pound = 453.6 grams
 1 quart = 0.94 liters
 1 ounce = 28.35 grams

1. 4632 g = 163.4 oz

2. 2311 mL = .615 gallons

$$\begin{array}{r|l} 4632g & 1 \text{ oz} \\ \hline & 28.35g \end{array}$$

$$\begin{array}{r|l|l|l} 2311 \text{ mL} & 1 \text{ L} & 1 \text{ qt} & 1 \text{ gallon} \\ \hline & 1000 \text{ mL} & .94 \text{ L} & 4 \text{ qt} \end{array}$$

= 163.4 oz

= ~~0.615~~ .615 gallons.

3. 21 square feet = 1.95 meters squared. 4. What is the value of: kilo _____, centi _____

$$\begin{array}{r|l|l} 21 \text{ ft}^2 & 30.5^2 \text{ cm}^2 & 1^2 \text{ m}^2 \\ \hline & 1^2 \text{ ft}^2 & 100^2 \text{ cm}^2 \end{array} =$$

Kilo means 1000
 Centi means 1/100

= 1.95 m²

Name the Career:

5. Analyzes plant material: leaf bits, pollen Botany

6. Analyzes structural failure such as when a bridge fails: Engineer

7. Analyzes identity theft and phishing scams Cyber technologist

8. Performs autopsies: Pathologist and/or Medical Examiner

9. Out of a population of 400: 117 wear glasses, 29 have type AB neg blood, and 207 are male. Determine the number individuals that share these characteristics.

$$\frac{117}{400}$$

$$\frac{29}{400}$$

$$\frac{207}{400}$$

= .293 x .073 x .518 = .01108

.01108 x 400 = 4.4 individuals