

Practice Assignment

1. How many ounces are in 1 ton? (2,000 pounds = 1 ton, 16 ounces = 1 pound)

$$\frac{1 \cancel{\text{ton}}}{1} \cdot \frac{2,000 \cancel{\text{lbs}}}{1 \cancel{\text{ton}}} \cdot \frac{16 \text{ oz}}{1 \cancel{\text{lb}}} = \boxed{3200 \text{ oz}}$$

2. How many pints are in 3 gallons? (2 pints = 1 quart, 4 quarts = 1 gallon)

$$\frac{3 \cancel{\text{gal}}}{1} \cdot \frac{4 \cancel{\text{qts}}}{1 \cancel{\text{gal}}} \cdot \frac{2 \text{ pts}}{1 \cancel{\text{qt}}} = \boxed{24 \text{ pts}}$$

3. How many inches are in 2 miles? (5,280 feet = 1 mile, 12 inches = 1 foot)

$$\frac{2 \cancel{\text{mi}}}{1} \cdot \frac{5280 \cancel{\text{ft}}}{1 \cancel{\text{mi}}} \cdot \frac{12 \text{ in}}{1 \cancel{\text{ft}}} = \boxed{126,720 \text{ in}}$$

4. How many fluid ounces are in 2 pints? (8 fl oz = 1 cup, 2 cups = 1 pint)

$$\frac{2 \cancel{\text{pts}}}{1} \cdot \frac{2 \cancel{\text{cups}}}{1 \cancel{\text{pts}}} \cdot \frac{8 \text{ fl oz}}{1 \cancel{\text{cup}}} = \boxed{32 \text{ fl. oz}}$$

5. How many inches are in 3 kilometers? (use 1 in = 2.54 cm, 1 kilometer = 1000 meters, 1 meter = 100 centimeters)

$$\frac{3 \cancel{\text{km}}}{1} \cdot \frac{1000 \cancel{\text{m}}}{1 \cancel{\text{km}}} \cdot \frac{100 \cancel{\text{cm}}}{1 \cancel{\text{m}}} \cdot \frac{1 \text{ in}}{2.54 \cancel{\text{cm}}} = \boxed{118,110.2 \text{ in}}$$

6. How many liters are in 10 pints? (use 1 quart = .95 liters, 2 pints = 1 quart)

$$\frac{10 \cancel{\text{pts}}}{1} \cdot \frac{1 \cancel{\text{qt}}}{2 \cancel{\text{pts}}} \cdot \frac{.95 \text{ L}}{1 \cancel{\text{qt}}} = \boxed{4.75 \text{ L}}$$

7. Keenan wants to make sure he has enough homemade iced tea for everyone. He makes 2 gallons of iced tea. He wants to have enough for 40 cups of tea. Did he make enough? (4 quarts = 1 gallon, 2 cups = 1 pint, 2 pints = 1 quart)

$$\frac{2 \cancel{\text{gal}}}{1} \cdot \frac{4 \cancel{\text{qt}}}{1 \cancel{\text{gal}}} \cdot \frac{2 \text{pt}}{1 \text{qt}} \cdot \frac{2 \text{cup}}{1 \text{pt}} = \boxed{32 \text{ cups}}$$

$$\underline{32 \text{ cups}} < 40 \text{ cups}$$

Keenan did not make enough tea.

8. You are making fruit smoothies for a school party. You need 1,500 milliliters of blueberries. However, blueberries only come in pints. How many pints do you need? (use 1 quart = .95 liters, 1000 milliliters = 1 liter)

* 2 pt = 1 qt

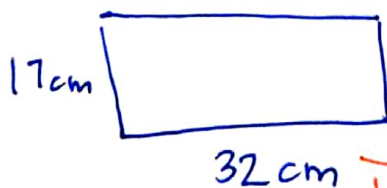
$$\frac{1,500 \cancel{\text{mL}}}{1} \cdot \frac{1 \cancel{\text{L}}}{1000 \cancel{\text{mL}}} \cdot \frac{1 \cancel{\text{qt}}}{.95 \cancel{\text{L}}} \cdot \frac{2 \text{pt}}{1 \cancel{\text{qt}}} = 2.85 \text{ pts}$$

I would need $\boxed{3 \text{ pts}}$

9. A tin of mints has a mass of 50 grams. How many ounces is that? (use 1 pound = 453.6 grams, 16 ounces = 1 pound)

$$\frac{50 \cancel{\text{g}}}{1} \cdot \frac{1 \cancel{\text{lb}}}{453.6 \cancel{\text{g}}} \cdot \frac{16 \text{oz}}{1 \cancel{\text{lb}}} = \boxed{1.76 \text{ oz}}$$

10. The length of a rectangle is 32 cm and the width is 170 mm. What is the area and perimeter of the rectangle in centimeters and millimeters? (10 millimeters = 1 centimeter)



$$A = l \cdot w = 17 \text{ cm} \times 32 \text{ cm} = \boxed{544 \text{ cm}^2}$$

$$A = l \cdot w = 170 \text{ mm} \times 320 \text{ mm} = \boxed{54400 \text{ mm}^2}$$

K H D * d cm

$$P = (17 + 17 + 32 + 32) \text{ cm}$$

$$P = \boxed{98 \text{ cm}}$$

$$P = 170 \text{ mm} + 170 \text{ mm} + 320 \text{ mm} + 320 \text{ mm}$$

$$P = \boxed{980 \text{ mm}}$$