

* Team Awesome

10/18

~~11/18~~

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Fri
day
lab

Convert The Following:

1. .50 m \rightarrow yd

2. 3.5 lb \rightarrow g

3. 2.85 L \rightarrow qt

4. 462.8 cm \rightarrow mi

5. 53.06 g \rightarrow Kg

Convert The Following Temperatures:

1. 5468 K \rightarrow $^{\circ}$ C

2. 95.8 $^{\circ}$ C \rightarrow $^{\circ}$ F

3. 25.3 $^{\circ}$ F \rightarrow K

4. 126.4 $^{\circ}$ C \rightarrow K

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Answer Key

$$1. .50 \text{ m} \times \frac{1.0936 \text{ yd}}{1 \text{ m}} = .5468 \text{ yd} \rightarrow .55 \text{ yd}$$

$$2. 3.5 \text{ lb} \times \frac{453.59 \text{ g}}{1 \text{ lb}} = 1587.565 \text{ g} \rightarrow 1.6 \times 10^3 \text{ g}$$

$$3. 2.85 \text{ L} \times \frac{1.0567 \text{ qt}}{1 \text{ L}} = 3.011595 \text{ qt} \rightarrow 3.01 \text{ qt}$$

$$4. 462.8 \text{ cm} \times \frac{1 \text{ in}}{2.54 \text{ cm}} \times \frac{1 \text{ ft}}{12 \text{ in}} \times \frac{1 \text{ mi}}{5280 \text{ ft}} =$$
$$.0028757 \text{ mi} \rightarrow .0029 \text{ mi} \quad 2.876 \times 10^3 \text{ mi}$$

$$5. 53.06 \text{ g} \times \frac{1 \text{ kg}}{10^3 \text{ g}} = .05306 \text{ kg} \rightarrow .0531 \text{ kg}$$

~~.05306 kg~~

$$1. 5468 \text{ K} - 273 \text{ }^\circ\text{C} = 5195 \text{ }^\circ\text{C}$$

$$2. (95.8 \text{ }^\circ\text{C} \times 9/5) + 32 = 172.44 + 32 = 204.4 \text{ }^\circ\text{C} \rightarrow 204 \text{ }^\circ\text{C}$$

$$3. 25.3 \text{ }^\circ\text{F} \rightarrow \text{ }^\circ\text{C} \rightarrow \text{K}$$

$$\text{ }^\circ\text{C} = 5/9 (35.3 \text{ }^\circ\text{F} - 32) = 17.9 \text{ }^\circ\text{C} \rightarrow \text{K}$$

$$\text{ }^\circ\text{C} = 17.9 \text{ }^\circ\text{C} + 273 = 290.9 \text{ K} \rightarrow 291 \text{ K}$$

$$4. 126.4 \text{ }^\circ\text{C} + 273.15 = 399.55 \rightarrow 400 \text{ K}$$