

17/1/18

4 Ladies and a man

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Convert the following

① 3.75 gal  $\rightarrow$  L

② 1057 mL  $\rightarrow$  L

③ 55.33 kg  $\rightarrow$  lb

④ 2 in  $\rightarrow$  m

⑤ 20 yd  $\rightarrow$  mi

Temperature

① 80° F  $\rightarrow$  K

② 78° F  $\rightarrow$  °C

③ 101° C  $\rightarrow$  °F

④ 420 K  $\rightarrow$  °C

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## Answer key

$$\textcircled{1} 3.75 \text{ gal} \times \frac{3.7854 \text{ L}}{1 \text{ gal}} = 14.2 \text{ L}$$

$$\textcircled{2} 7057 \text{ mL} \times \frac{1 \text{ cm}^3}{1 \text{ mL}} \times \frac{1 \text{ L}}{10^3 \text{ cm}^3} = 7.057 \text{ L}$$

$$\textcircled{3} 55.33 \text{ kg} \times \frac{2.2046 \text{ lb}}{1 \text{ kg}} = 122.0 \text{ lb}$$

$$\textcircled{4} 2 \text{ in} \times \frac{1 \text{ cm}}{0.39370 \text{ in}} \times \frac{1 \text{ m}}{100 \text{ cm}} = 0.05 \text{ m or } 5 \times 10^{-2} \text{ m}$$

$$\textcircled{5} 20 \text{ yd} \times \frac{1 \text{ m}}{1.0936 \text{ yd}} \times \frac{1 \text{ km}}{1000 \text{ m}} \times \frac{0.62137 \text{ mi}}{1 \text{ km}} = .011 \text{ mi}$$
$$1.1 \times 10^{-2}$$

## Temperature

$$\textcircled{1} ^\circ\text{C} = \frac{5}{9}(80^\circ - 32) + 273 \text{ K} = \frac{5}{9}(48) + 273 \text{ K} = 300 \text{ K}$$

$$\textcircled{2} ^\circ\text{C} = \frac{5}{9}(78 - 32) = \frac{5}{9}(46) = 26^\circ\text{C}$$

$$\textcircled{3} ^\circ\text{F} = \frac{9}{5}(101^\circ) + 32 = 214^\circ\text{F}$$

$$\textcircled{4} 426 \text{ K} = ^\circ\text{C} + 273.15 = 153^\circ\text{C}$$
$$\begin{array}{r} 426 \\ -273.15 \\ \hline 152.85 \end{array}$$