

The Dew (group 2) 17/18

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Convert the following

① $90.3 \times 10^3 \text{ km.} \rightarrow$ _____ mi.

② $3.5 \times 10^4 \text{ L} \rightarrow$ _____ mL

③ $72^\circ \text{F} \rightarrow$ _____

$180 \text{ kg} \rightarrow$ _____ lb

④ $30 \text{ m} \rightarrow$ _____ yd

⑤ $5 \text{ km} \rightarrow$ _____ yd.

Convert the following temps.

① $557 \text{ K} \rightarrow$ _____ $^\circ \text{C}$

② $39.0 \text{ K} \rightarrow$ _____ $^\circ \text{F}$

③ $72^\circ \text{F} \rightarrow$ _____ K

④ ~~#~~ $315 \text{ K} \rightarrow$ _____ $^\circ \text{C}$

The Dew's answers

1. $90.3 \times 10^3 \text{ km}$
 $1 \text{ km} = 0.62137 \text{ mi}$ $90.3 \times 10^3 \text{ km} \cdot \frac{0.62137 \text{ mi}}{1 \text{ km}} = 5.61 \times 10^4 \text{ mi}$

2. $3.5 \times 10^4 \text{ L} \rightarrow \text{mL}$
 $3.5 \times 10^4 \cancel{\text{L}} \times \frac{1 \times 10^3 \text{ mL}}{1 \cancel{\text{L}}} = 3.5 \times 10^7 \text{ mL}$

3. $180 \text{ kg} \times \frac{2.2046 \text{ lb}}{1 \text{ kg}} = 397 \text{ lbs}$

4. $30 \text{ m} \times \frac{1.0936 \text{ yd}}{1 \text{ m}} = 33 \text{ yd}$

5. $5 \text{ Km} \times \frac{1000 \text{ m}}{1 \text{ Km}} = 5000 \text{ m}$
 $5000 \text{ m} \times \frac{1.0936 \text{ yd}}{1 \text{ m}} = \cancel{5468 \text{ yd}} \quad \underline{5 \times 10^3 \text{ yd}}$

1. $557 \text{ K} \rightarrow \text{C}$
 $557 - 273 \rightarrow 284^\circ \text{C}$

2. $39.0 \text{ K} \rightarrow ^\circ \text{F}$
 $39.0 \text{ K} \rightarrow ^\circ \text{C}$ ~~234~~ $-234.15 \cdot \frac{9}{5} = -421.47$
 $39.0 - 273.15 = -234.15^\circ \text{C}$ $-421.47 + 32 = \underline{-389.47^\circ \text{F}}$

3. $72^\circ \text{F} \rightarrow \text{K}$ $5/9(-72^\circ \text{F} - 32) = 22^\circ \text{C}$
 $22.22 + 273.15 = 295.3 \text{ K}$

4. $315^\circ \text{K} \rightarrow ^\circ \text{C}$
 $315^\circ \text{K} = ^\circ \text{C} + 273.15$
 $^\circ \text{C} = 315^\circ - 273.15$
 $^\circ \text{C} = 41.85^\circ$