

Chem. Ppt !!

1/6/10

F Christine Coyle
T Waseem Saedi
T Armando Fernández
T Jessica Onler
T Leticia Valentin

1. 32 nm \rightarrow km
2. 13.2 dm \rightarrow mm
3. 45.54 pm \rightarrow Mm
4. 154 ft \rightarrow yd
5. 24 mi \rightarrow m

Can any do 1 metric
question

1. $45^{\circ}\text{C} \rightarrow$ Kelvin

2. $45^{\circ}\text{C} \rightarrow$ Fahrenheit

3. 98° Fahrenheit \rightarrow Celsius

4. 312 K \rightarrow Celsius

T - Waseem Saeedi
T - Leticia Valentin
F - christine coyle
T - Jessica Onler
T - Armando Fernandez

Answers

1. $32 \text{ nm} \rightarrow \text{km}$

$$32 \text{ nm} \times \frac{1 \text{ m}}{1 \times 10^9 \text{ nm}} \times \frac{1 \text{ km}}{1000 \text{ m}} = 3.2 \times 10^{-11} \text{ km}$$

2. $13.2 \text{ dm} \rightarrow \text{m}$

$$13.2 \text{ dm} \times \frac{1 \text{ m}}{10 \text{ dm}} \times \frac{1000 \text{ mm}}{1 \text{ m}} = 1320 \text{ mm}$$

3. $45.54 \text{ pm} \times \frac{1 \text{ m}}{1 \times 10^{12} \text{ pm}} \times \frac{1 \times 10^6 \text{ } \mu\text{m}}{1 \text{ m}} = 4.554 \times 10^{-5} \text{ } \mu\text{m}$

4. $154 \text{ ft} \rightarrow \text{yd}$

$$154 \text{ ft} \times \frac{1.6093 \text{ km}}{5280 \text{ ft}} \times \frac{1000 \text{ m}}{1 \text{ km}} \times \frac{1.0936 \text{ yd}}{1 \text{ m}} = 51.3 \text{ yd}$$

5. $24 \text{ mi} \rightarrow \text{m}$

$$24 \text{ mi} \times \frac{1.6093 \text{ km}}{1 \text{ mi}} \times \frac{1000 \text{ m}}{1 \text{ km}} = 3.9 \times 10^4 \text{ m}$$

6

F-Christine Coyle
T-Leticia Valentin
T-Waseem Sult
T-Jessica Olier
T-Armando Fernandez

Answers:

1. $45^{\circ}\text{C} \rightarrow \text{K}$

$$\text{K} = 45 + 273.15 = 318.15 \text{ K}$$

2. $45^{\circ}\text{C} \rightarrow ^{\circ}\text{F}$

$$\text{F} = \frac{9}{5}(45) + 32 = 113^{\circ}\text{F}$$

3. $98^{\circ}\text{F} \rightarrow \text{C}$

$$\text{C} = \frac{5}{9}(98 - 32)$$

$$\text{C} = \frac{5}{9}(66)$$

$$37^{\circ}\text{C}$$

4. $312 \text{ K} \rightarrow$

$$\text{C} = 312 - 273.15 = 38.85^{\circ}\text{C}$$