

17/2/18

Group Name: The Fabulous Five

T Kellie Zalabak  
F Jorge Valentin  
F Danielle Penn  
F Nadima Farah  
T Trudae Weber

Convert the following

- ① .65 m  $\rightarrow$  mm
- ② 34 mi  $\rightarrow$  km
- ③ 12 Kg  $\rightarrow$  lbs.
- ④ 56.0 in  $\rightarrow$  cm
- ⑤ 65 cal  $\rightarrow$  J

Convert the following temps.

- ①  $-178^{\circ}\text{K} \rightarrow \text{C}$
- ②  $58^{\circ}\text{C} \rightarrow \text{F}$
- ③  $300^{\circ}\text{K} \rightarrow \text{F}$
- ④  $89^{\circ}\text{F} \rightarrow \text{K}$

①  $.65 \rightarrow \text{mm}$

$$.65 \times \frac{1000 \text{ mm}}{1 \text{ m}} = \boxed{6.5 \times 10^2 \text{ mm}}$$

②  $34 \text{ mi} \rightarrow \text{km}$

$$34 \text{ mi} \times \frac{1.6093 \text{ km}}{1 \text{ mi}} = \boxed{55 \text{ km}}$$

③  $12 \text{ kg} \rightarrow \text{lbs}$

$$12 \text{ kg} \times \frac{2.2046 \text{ lbs}}{1 \text{ kg}} = \boxed{26 \text{ lbs}}$$

④  $56.0 \text{ in} \rightarrow \text{cm}$

$$56.0 \text{ in} \times \frac{2.54 \text{ cm}}{1 \text{ in}} = \boxed{142 \text{ cm}}$$

⑤  $65 \text{ cal} \rightarrow \text{J}$

$$65 \text{ cal} \times \frac{4.184 \text{ J}}{1 \text{ cal}} = \boxed{2.7 \times 10^2 \text{ J}}$$

Convert following temps

①  $-178^\circ \text{K} - 273 = -451^\circ \text{C}$

②  $(9/5 \cdot \text{C}) + 32 = (9/5 \cdot 58) + 32 = 136^\circ \text{F}$

③  $300^\circ \text{K} - 273 = 27^\circ \text{C}$      $\text{F} = (9/5 \cdot 27) + 32 = 81^\circ \text{F}$

④  $\text{C} = 5/9(89 - 32) = 32^\circ \text{C} + 273 = 305^\circ \text{K}$