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Temperature

$$T_F = (9 / 5) T_C + 32$$

$$T_C = (5 / 9) (T_F - 32)$$

$$T_K = T_C + 273.15$$

$$T_C = T_K - 273.15$$

A. $12\text{ }^\circ\text{C} = \underline{\hspace{1cm}}\text{ }^\circ\text{F} = \underline{\hspace{1cm}}\text{ K}$

$$T_F = (9 / 5) 12 + 32 = 53.6\text{ }^\circ\text{F}$$

$$T_K = 12 + 273.15 = 285.15\text{ K}$$

B. $75\text{ }^\circ\text{F} = \underline{\hspace{1cm}}\text{ }^\circ\text{C} = \underline{\hspace{1cm}}\text{ K}$

$$T_C = (5 / 9) (75 - 32) = 23.89\text{ }^\circ\text{C}$$

$$T_K = 23.89 + 273.15 = 297.04\text{ K}$$

C. $500\text{ K} = \underline{\hspace{1cm}}\text{ }^\circ\text{C} = \underline{\hspace{1cm}}\text{ }^\circ\text{F}$

$$T_C = 500 - 273.15 = 226.85\text{ }^\circ\text{C}$$

$$T_F = (9 / 5) 226.85 + 32 = 440.33\text{ }^\circ\text{F}$$