

Name: KEY

Temperature Conversion Worksheet

$$K^{\circ} = C^{\circ} + 273$$

$$F^{\circ} = 9/5 C^{\circ} + 32 \quad C^{\circ} = 5/9(F^{\circ} - 32)$$

Convert the following to Fahrenheit

1) $10^{\circ}C$ $50^{\circ}F$

2) $30^{\circ}C$ $86^{\circ}F$

3) $40^{\circ}C$ $104^{\circ}F$

$$\boxed{^{\circ}F \Rightarrow 9/5 C^{\circ} + 32}$$

Convert the following to Celsius

4) $32^{\circ}F$ $0^{\circ}C$

5) $45^{\circ}F$ $7.2^{\circ}C$

6) $70^{\circ}F$ $21^{\circ}C$

$$\boxed{^{\circ}C = 5/9(^{\circ}F - 32)}$$

Convert the following to Kelvin

7) $80^{\circ}F$ $299 = 300K$

8) $90^{\circ}F$ $305 = 300K$

9) $212^{\circ}F$ $373K$

TWO STEPS

$$^{\circ}C = 5/9(F - 32)$$

$$^{\circ}K = ^{\circ}C + 273$$

Convert the following to Kelvin

10) $0^{\circ}C$ $273K$

11) $-50^{\circ}C$ $223K = 220K$

12) $-20^{\circ}C$ $253K = 250K = 300K$

$$\boxed{K = ^{\circ}C + 273}$$

Convert the following to Celsius

13) $100^{\circ}K$ $-173^{\circ}C = -200^{\circ}C$

14) $200^{\circ}K$ $-73^{\circ}C \Rightarrow -70^{\circ}C$

15) $273^{\circ}K$ $0^{\circ}C$

$$\boxed{^{\circ}C = K - 273}$$

Convert the following to Fahrenheit

16) $337K$ $147^{\circ}F$

17) $100K$ $-279^{\circ}F = -300^{\circ}F$

TWO STEPS

$$^{\circ}C = K - 273$$

$$^{\circ}F = (^{\circ}C \times 9/5) + 32$$