

Name: \_\_\_\_\_

Block #: \_\_\_\_\_

## Temperature Conversion Worksheet

### Formulas:

Fahrenheit to Celsius

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

Celsius to Fahrenheit:

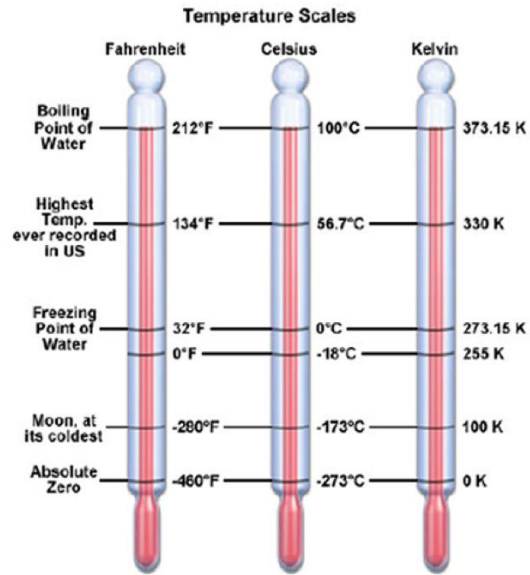
$$F^{\circ} = 9/5 C^{\circ} + 32$$

Celsius to Kelvin

$$K^{\circ} = C^{\circ} + 273.15$$

Kelvin to Celsius:

$$C^{\circ} = K^{\circ} - 273.15$$



Use the formulas above to convert the temperatures to different scales.

### Convert the following to Fahrenheit

- 1) 10° C \_\_\_\_\_
- 2) 30° C \_\_\_\_\_
- 3) 40° C \_\_\_\_\_
- 4) 37° C \_\_\_\_\_
- 5) 0° C \_\_\_\_\_

### Convert the following to Kelvin

- 12) 0° C \_\_\_\_\_
- 13) -50° C \_\_\_\_\_
- 14) 90° C \_\_\_\_\_
- 15) -20° C \_\_\_\_\_

### Convert the following to Celsius

- 6) 32° F \_\_\_\_\_
- 7) 45° F \_\_\_\_\_
- 8) 70° F \_\_\_\_\_
- 9) 80° F \_\_\_\_\_
- 10) 90° F \_\_\_\_\_
- 11) 212° F \_\_\_\_\_

### Convert the following to Celsius

- 16) 100 K \_\_\_\_\_
- 17) 200 K \_\_\_\_\_
- 18) 273 K \_\_\_\_\_
- 19) 350 K \_\_\_\_\_

Convert the following to Kelvin: (remember you must change it to Celcius then to Kelvin)

20) 32°F

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21) 98°F

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22) 212°F

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23) 140°F

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24) -20°F

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25) -45°F

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26) -30°F

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27) 70°F

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28) 50°F

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29) 65°F

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30) 85°F

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