

### Temperature Conversion

Fahrenheit to Celsius: MS2

Example: Convert 48 °F into °C.

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

Using this formula,  $C = \frac{5}{9}(48 - 32) = \frac{5}{9}(16) = \frac{80}{9} = 8.888... \text{ } ^\circ\text{C} \approx 8.9 \text{ } ^\circ\text{C}$

Convert Fahrenheit into Celsius.

1) 72 °F ≈ \_\_\_\_\_ °C      2) -24 °F ≈ \_\_\_\_\_ °C

3) -52 °F ≈ \_\_\_\_\_ °C

5) -48 °F ≈ \_\_\_\_\_ °C

7) 108 °F ≈ \_\_\_\_\_ °C

9) -1 °F ≈ \_\_\_\_\_ °C

11) 117 °F ≈ \_\_\_\_\_ °C

13) -10 °F ≈ \_\_\_\_\_ °C      14) -35 °F ≈ \_\_\_\_\_ °C

15) 175 °F ≈ \_\_\_\_\_ °C      16) -58 °F ≈ \_\_\_\_\_ °C

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**Answer Key****Temperature Conversion**

Fahrenheit to Celsius: MS2

Example: Convert 48 °F into °C.

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

$$\text{Using this formula, } C = \frac{5}{9}(48 - 32) = \frac{5}{9}(16) = \frac{80}{9} = 8.888... \text{ } ^\circ\text{C} \approx \mathbf{8.9} \text{ } ^\circ\text{C}$$

Convert Fahrenheit into Celsius.

1) 72 °F ≈ **22.2** °C

2) -24 °F ≈ **-31.1** °C

3) -52 °F ≈ **-45.6** °C

5) -48 °F ≈ **-33.3** °C

7) 108 °F ≈ **42.2** °C

9) -1 °F ≈ **-17.2** °C

11) 117 °F ≈ **47.2** °C

13) -10 °F ≈ **-23.3** °C

14) -35 °F ≈ **-37.2** °C

15) 175 °F ≈ **79.4** °C

16) -58 °F ≈ **-50** °C

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