

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 the temperatures from Fahrenheit to Celsius using the formula. Round your answers to the nearest tenth.

1) 72 °F ≈ \_\_\_\_\_ °C

2) -24 °F ≈ \_\_\_\_\_ °C

3) -52 °F ≈ \_\_\_\_\_ °C

4) 120 °F ≈ \_\_\_\_\_ °C

5) -48 °F ≈ \_\_\_\_\_ °C

6) 154 °F ≈ \_\_\_\_\_ °C

7) 108 °F ≈ \_\_\_\_\_ °C

8) -13 °F ≈ \_\_\_\_\_ °C

9) -1 °F ≈ \_\_\_\_\_ °C

10) 38 °F ≈ \_\_\_\_\_ °C

11) 117 °F ≈ \_\_\_\_\_ °C

12) 89 °F ≈ \_\_\_\_\_ °C

13) -10 °F ≈ \_\_\_\_\_ °C

14) -35 °F ≈ \_\_\_\_\_ °C

15) 175 °F ≈ \_\_\_\_\_ °C

16) -58 °F ≈ \_\_\_\_\_ °C