

Name: Key

Temperature Conversion Worksheet

Short Answer Questions (Please answer all of the following in your composition books):

1. What does temperature specifically represent?
2. What does the word heat mean?
3. Define the thermodynamics.
4. Why were the Fahrenheit, Celsius, and Kelvin scales first created?
5. What surprised you in the temperature extremes section?

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

$$F^{\circ} = \left(\frac{9}{5} \cdot C^{\circ}\right) + 32 \quad C^{\circ} = \frac{5}{9}(F^{\circ} - 32)$$

Convert the following to Fahrenheit

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

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

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

4) $37^{\circ}C$ $98.6^{\circ}F$

5) $0^{\circ}C$ $32^{\circ}F$

Convert the following to Celsius

6) $32^{\circ}F$ $0^{\circ}C$

7) $45^{\circ}F$ $7.2^{\circ}C$

8) $70^{\circ}F$ $21.1^{\circ}C$

9) $80^{\circ}F$ $26.6^{\circ}C$

10) $212^{\circ}F$ $100^{\circ}C$

Convert the following to Kelvin

11) $0^{\circ}C$ $273 K$

12) $-50^{\circ}C$ $223 K$

13) $90^{\circ}C$ $363 K$

14) $-20^{\circ}C$ $253 K$

Convert the following to Celsius

15) $100^{\circ}K$ $-173^{\circ}C$

16) $200^{\circ}K$ $-73^{\circ}C$

17) $273^{\circ}K$ $0^{\circ}C$

18) $350^{\circ}K$ $77^{\circ}C$