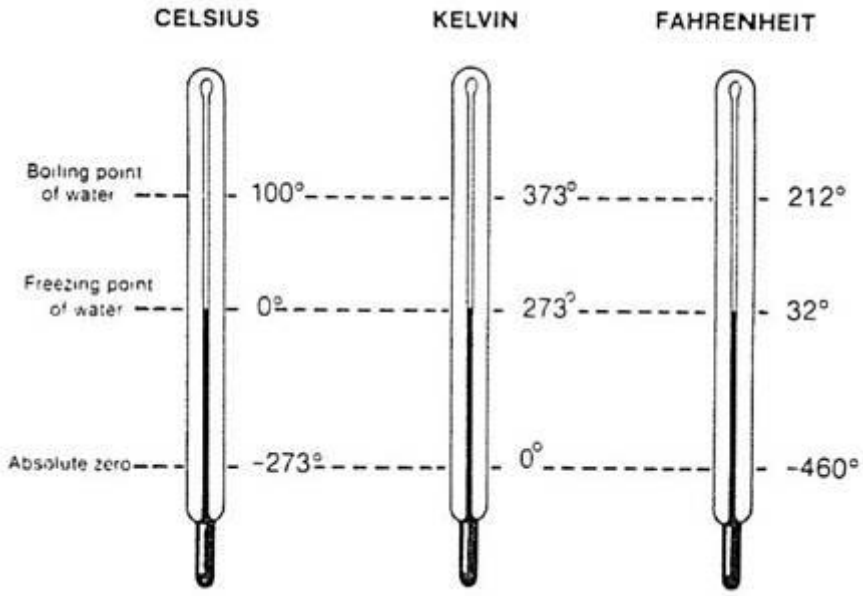
Temperature Scales Worksheet



Directions: Use the diagram below of the three temperature scales to answer the questions.

1. Fill in the chart below with the correct answers:

	Celsius	Kelvin	Fahrenheit
a. Boiling point of water	____	____	____
b. Freezing point of water	___	_____	____
c. Absolute zero	_____	_____	_____
d. Melting point of ice	_____	_____	_____
e. Number of degrees between boiling point and freezing point of water	_____	_____	_____

2. Which is larger, a Kelvin degree or a Fahrenheit degree?
   _____

3. How many Fahrenheit degrees equal one Celsius degree?
   _____

4. How many Kelvin degrees equal one Celsius degree? _____

To convert degrees Celsius to degrees Fahrenheit, use the following formula:

Degrees Fahrenheit = (9/5 x °C) + 32

5. 10 degrees Celsius = _____ degrees Fahrenheit
6. 37 degrees Celsius = _____ degrees Fahrenheit

To convert degrees Fahrenheit to degrees Celsius, use the following formula:

Degrees Celsius = 5/9 x (°F – 32)

7. 100 degrees Fahrenheit = _____ degrees Celsius
8. 63 degrees Fahrenheit = _____ degrees Celsius

9. **Convert the following to Fahrenheit**

1) 10^{o} C _____

2) 30^{o} C _____

3) 40^{o} C _____

4) 37^{o} C _____

5) 0^{o} C _____

10. **Convert the following to Celsius**

6) 32^{o} F _____

7) 45^{o} F _____

8) 70^{o} F _____

9) 80^{o} F _____

10) 90^{o} F _____

11) 212^{o} F _____

11.Convert the following to Kelvin

12) 0^{o} C _____

13) -50^{o} C _____

14) 90^{o} C _____

15) -20^{o} C _____

12.Convert the following to Celsius

16) 100^{o} K _____

17) 200^{o} K _____

18) 273^{o} K _____

19) 350^{o} K _____