| Name: | _ Date: |
|-------|---------|
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Temperature Conversion Worksheet Answers

| Fahrenheit | | Celsius | Comments |
|------------|---|---------|--------------------------|
| 212° | = | 100° | Water boils |
| 200° | = | 93° | |
| 100° | = | 38° | |
| 80° | = | 27° | |
| 70° | = | 21° | |
| 68° | = | 20° | Typical room temperature |
| 50° | = | 10° | |
| 32° | = | 0° | Water freezes |

You can convert a temperature from **Celsius to Fahrenheit** in 3 steps:

1. Take your Celsius temperature _____ and multiply it by 9.

_____x 9 = ____

2. Take the answer from step one and divide it by 5.

÷ 5 = _____

3. Take the answer from step two and add 32 to it.

_____+ 32 = _____

Example: Let's convert 20° Celsius to Fahrenheit:

 20° Celsius x 9 = 180

 $180 \div 5 = 36$

 $36 + 32 = 68^{\circ}$ Fahrenheit

To convert from Celsius to Fahrenheit:

$$T_F = \frac{9}{5}T_C + 32$$

You can convert a temperature from **Fahrenheit to Celsius** in 3 steps:

1. Take your Fahrenheit temperature _____ and subtract 32 from it.

_____ - 32 = _____

2. Take the answer from step one and multiply it by 5.

____ x 5 = ____

Take the answer from step two and divide it by 9.

÷9 = ____

Example: Let's convert 200° Fahrenheit to Celsius:

 200° Fahrenheit - 32 = 168

 $168 \times 5 = 840$

 $840 \div 9 = 93^{\circ}$ Celsius

To convert from Fahrenheit to Celsius:

$$T_C = \frac{5}{9} \big(T_F - 32 \big)$$

Now, convert the temperature units to finish the above table.