Name _____ **Date** _____

Converting Temperatures to and from Celsius

Two very common ways to measure an objects' temperature are using a Fahrenheit and Celsius thermometer. If we have one of the two and we need to report the other, we use the conversion formula:

$$F = \frac{9}{5}C + 32$$

Input the temperature from the thermometer and compute the temperature in Fahrenheit degrees.
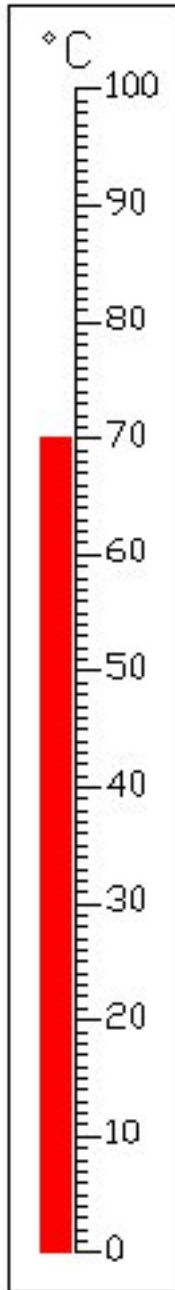
Figure 1:

_____ ° C

_____ ° F

Figure 2:

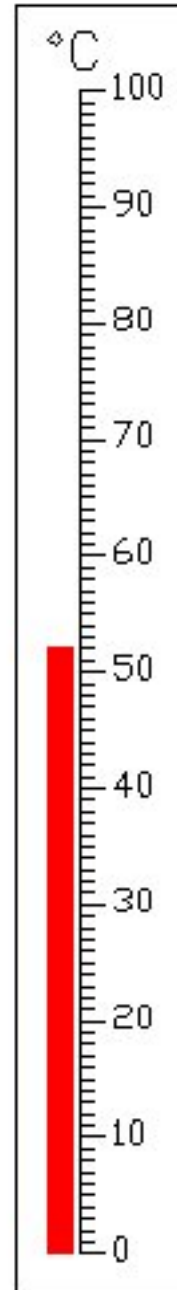_____ ° C

_____ ° F

°C
100
90
80
70
60
50
40
30
20
10
0

°C
100
90
80
70
60
50
40
30
20
10
0

Figure 1   Figure 2

Change the algebraic formula around and we can compute for Celsius degrees using this formula.

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

Input the temperature from the thermometer and compute the temperature in Celsius degrees.

Figure 3:

_____ ° F

_____ ° C

Figure 4:
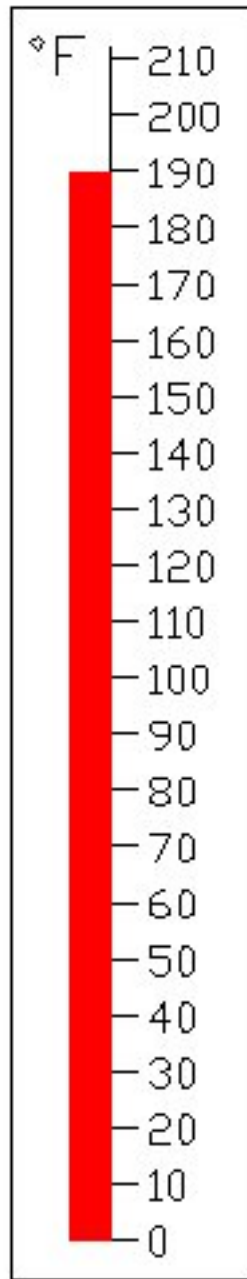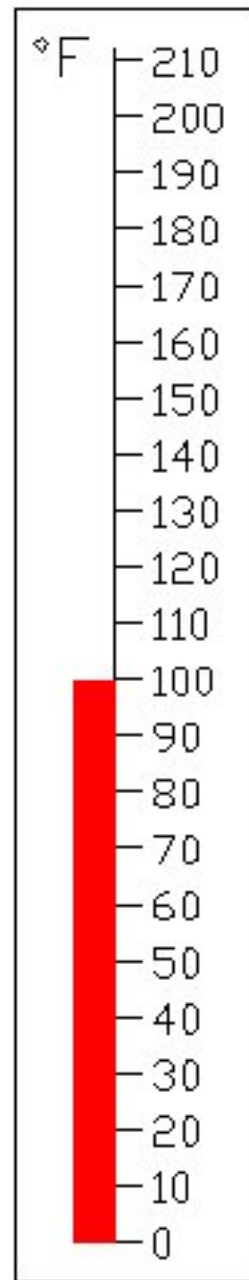
_____ ° F

_____ ° C

°F

| 210 |
| 200 |
| 190 |
| 180 |
| 170 |
| 160 |
| 150 |
| 140 |
| 130 |
| 120 |
| 110 |
| 100 |
| 90 |
| 80 |
| 70 |
| 60 |
| 50 |
| 40 |
| 30 |
| 20 |
| 10 |
| 0 |

°F

| 210 |
| 200 |
| 190 |
| 180 |
| 170 |
| 160 |
| 150 |
| 140 |
| 130 |
| 120 |
| 110 |
| 100 |
| 90 |
| 80 |
| 70 |
| 60 |
| 50 |
| 40 |
| 30 |
| 20 |
| 10 |
| 0 |

Figure 3

Figure 4