

Name \_\_\_\_\_ Date \_\_\_\_\_



# Converting Temperatures

To convert between Celsius and Fahrenheit, follow the formulae below.

**Celsius to Fahrenheit**  
**=  $9/5C + 32$**

To go from Celsius to Fahrenheit, divide Celsius by 5 then multiply it by 9 and add 32

**Fahrenheit to Celsius**  
**=  $5/9 (F - 32)$**

To go from Fahrenheit to Celsius, take 32 away from Fahrenheit then divide by 9 and multiply by 5

**Example 1**

$$\begin{aligned} 48^{\circ}\text{C} &= 48 \div 5 = 9.6 \\ 9.6 \times 9 &= 86.4 \\ 86.4 + 32 &= 118.4^{\circ}\text{F} \end{aligned}$$

**Example 2**

$$\begin{aligned} 28^{\circ}\text{F} &= 28 - 32 = -4 \\ -4 \div 9 &= -0.4 \\ -0.4 \times 5 &= -2.2^{\circ}\text{C} \end{aligned}$$

Now try these:

1.  $37^{\circ}\text{F}$
2.  $212^{\circ}\text{F}$
3.  $98^{\circ}\text{C}$
4.  $80^{\circ}\text{F}$
5.  $14^{\circ}\text{C}$
6.  $17^{\circ}\text{C}$
7.  $76^{\circ}\text{C}$
8.  $0^{\circ}\text{C}$
9.  $0^{\circ}\text{F}$
10.  $100^{\circ}\text{C}$
11.  $230^{\circ}\text{F}$
12.  $100^{\circ}\text{F}$
13.  $220^{\circ}\text{C}$
14.  $4^{\circ}\text{F}$
15.  $8^{\circ}\text{F}$

## Answers

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1.  $37^{\circ}\text{F} = 2.7^{\circ}\text{C}$
2.  $212^{\circ}\text{F} = 100^{\circ}\text{C}$
3.  $98^{\circ}\text{C} = 208.4^{\circ}\text{F}$
4.  $80^{\circ}\text{F} = 26.6^{\circ}\text{C}$
5.  $14^{\circ}\text{C} = 57.2^{\circ}\text{F}$
6.  $17^{\circ}\text{C} = 62.6^{\circ}\text{F}$
7.  $76^{\circ}\text{C} = 168.8^{\circ}\text{F}$
8.  $0^{\circ}\text{C} = 32^{\circ}\text{F}$
9.  $0^{\circ}\text{F} = -17.7^{\circ}\text{C}$
10.  $100^{\circ}\text{C} = 212^{\circ}\text{F}$
11.  $230^{\circ}\text{F} = 110^{\circ}\text{C}$
12.  $100^{\circ}\text{F} = 37.7^{\circ}\text{C}$
13.  $220^{\circ}\text{C} = 428^{\circ}\text{F}$
14.  $4^{\circ}\text{F} = -15.5^{\circ}\text{C}$
15.  $-8^{\circ}\text{F} = -22.2^{\circ}\text{C}$