

What are the two most common scales used to measure temperature?

Celsius - Commonly used in Canada

Fahrenheit - Commonly used in the United States

Can you think of any times when a Canadian might use Fahrenheit?
(Cooking & Vacations)

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Copy down these equivalencies in Fahrenheit and Celsius scales

Fahrenheit and Celsius Equivalencies		
Example	°F	°C
Bitterly cold day	-22	-30
Mild day	59	15
Hot day	81	27
Normal body temperature	98.6	37
Boiling water	212	100

Sometimes you need to convert between the two systems. The relationship between the two systems has been shown using the formula and 32°F.

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Celsius	Fahrenheit	
0	32	> 1.8
1	33.8	> 1.8
2	35.6	> 1.8
3	37.4	> 1.8
4	39.2	> 1.8

$1 \frac{2}{10} \approx \frac{13}{10} = \frac{9}{5}$ ✓

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

$F = \frac{9}{5}(2) + 32$?

$F = 35.6$

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To convert between Fahrenheit and Celsius use the following formula's:

°C to °F

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

°F to °C

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

Write these down!!

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Example: Convert the following. $F = \frac{9}{5}C + 32$ $C = \frac{5}{9}(F - 32)$

A. To convert from Fahrenheit → Celsius:

Example 1

Convert -4 °F to degrees Celsius.

$C = \frac{5}{9}(-4 - 32)$

$C = \frac{5}{9}(-36)$

$C = -20$

Substitute -4 for F

Subtract

Multiply

Divide

$(-)$ Minus

$(+)$ Add

$(-)$ Subtract

-4°F is equivalent to **20**°C.

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Example: Convert the following. $F = \frac{9}{5}C + 32$ $C = \frac{5}{9}(F - 32)$

B. To convert from Celsius → Fahrenheit:

Example 2

Convert 55 °C to degrees Fahrenheit.

$F = \frac{9}{5}(55) + 32$

$F = 99 + 32$

$F = 131$

Substitute 55 for C

Multiply

Divide

Add

131°F

55°C is equivalent to **131**°F

Note: Keep your answers to a tenth of a degree (4.36 °C will round to 4.4 °C)

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