



Boiling point:	212 ⁰ F	100 ⁰ C
Freezing:	32 ⁰ F	0 ⁰ C
Difference=	180 ⁰	100 ⁰

- So, between the freezing and boiling points, there are 180F⁰ for every 100C⁰.
- This is a ratio of 9F⁰ to 5C⁰, or 9F⁰/5C⁰, or 1.8F⁰/1C⁰.
- Since the freezing point on the “F” scale is 32⁰ higher than the 0⁰ on the “C” scale:

- When converting from $^{\circ}\text{F}$ to $^{\circ}\text{C}$...
 1. Subtract 32° from the $^{\circ}\text{F}$.
 2. Multiply the result by $5^{\circ}\text{C}/9^{\circ}\text{F}$.
 3. Round to correct significant digits.
- When converting from $^{\circ}\text{C}$ to $^{\circ}\text{F}$...
 1. Multiply the $^{\circ}\text{C}$ by $9^{\circ}\text{F}/5^{\circ}\text{C}$.
 2. Add 32° to the result.
 3. Round to correct significant digits.

Examples:

- $65^{\circ}\text{F} \approx ?^{\circ}\text{C}$
 - $65 - 32 = 33$
 - $33 \times 5/9 = 18.33\dots$
 - Answer = 18°C (Only 2 significant digits)
- $15^{\circ}\text{C} \approx ?^{\circ}\text{F}$
 - $15 \times 9/5 = 27$
 - $27 + 32 = 59$
 - Answer = 59°F (2 significant digits)