

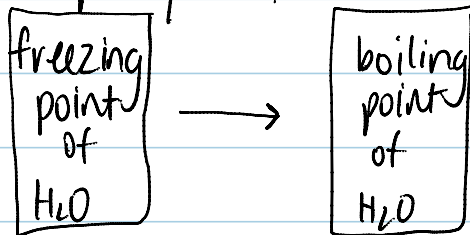
Temperature Conversions

November-12-13
9:29 AM

Canada measures temperature in **Celsius**
US measure in **Fahrenheit**

↳ the SI system (metric) measures temperature in Celsius

↳ 100 step system



$$0^{\circ}\text{C} \longrightarrow 32^{\circ}\text{F}$$

$$100^{\circ}\text{C} \longrightarrow 212^{\circ}\text{F}$$

Conversion formula

$$^{\circ}\text{C} \longrightarrow ^{\circ}\text{F}$$

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

*

$$^{\circ}\text{F} \longrightarrow ^{\circ}\text{C}$$

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

*

Ex. #1

(a.) convert $-4^{\circ}\text{F} \longrightarrow ^{\circ}\text{C}$

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

division
addition
B E D M A S

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

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

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

$$= \frac{5 \cancel{(-36)}}{9 \rightarrow 1} = \frac{-180}{9} = \boxed{-20^\circ\text{C}}$$

B E D M A S
Brackets)
exponents)
multipl.)
subtraction)

(b.) convert $-39^\circ\text{C} \rightarrow ^\circ\text{F}$

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

$$= \frac{9}{5} (-39) + 32$$

$$= \frac{9 \cancel{(-39)}}{5 \rightarrow 1} + 32$$

$$= \frac{-351}{5} + 32$$

$$= \underline{-70.2} + 32 = \boxed{-38.2^\circ\text{F}}$$