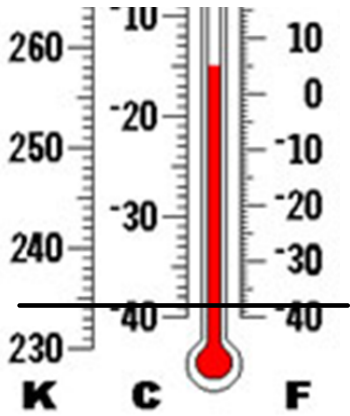


Temperature Conversion

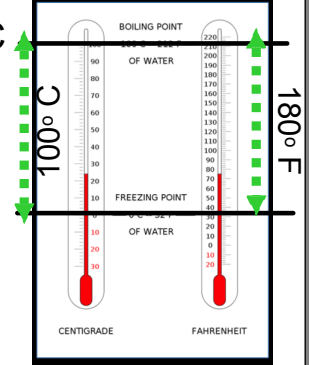
1) size of degree



Note how C degree is about 2 x greater
...actually, 1.8 times greater

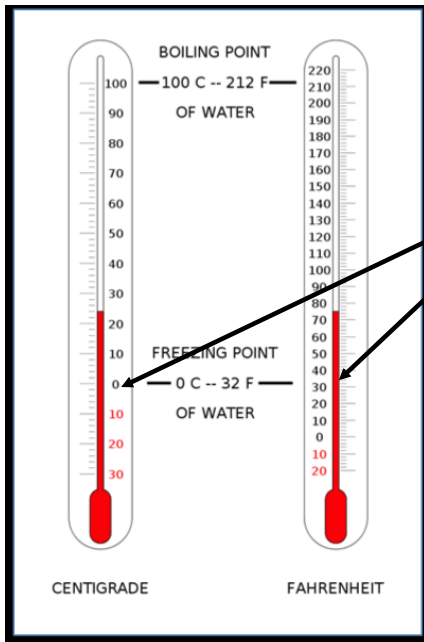
∴ $C \times 1.8 \sim F$ or, $F/1.8 \sim C$

freezing to boiling:
 $0^\circ C \rightarrow 100^\circ \Delta t = 100^\circ$
 vs, $32^\circ F \rightarrow 212^\circ F \Delta t = 180^\circ > 1.8 X$



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2) Starting point



note that at freezing of water:

$C = 0^\circ$ and $F = +32^\circ$

F is 32 degrees above C:

∴ $F - 32 \sim C$

and, $C + 32 \sim F$

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putting it together!

3) "180°" difference between freezing and boiling of water in F!
180 is our magic #
think boiling and get to 180!!!

base formula $(F - 32)/1.8 = C$

base formula $(C \times 1.8) + 32 = F$

order size and starting point is important!!!!

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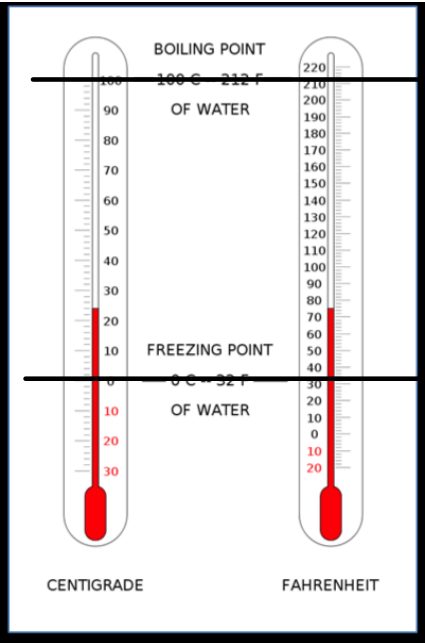
3) "180°" difference between freezing and boiling of water in F!
180 is our magic #
think boiling and get to 180!!!

$(F - 32)/1.8 = C$

$(C \times 1.8) + 32 = F$

order of size and starting point is important!!!!

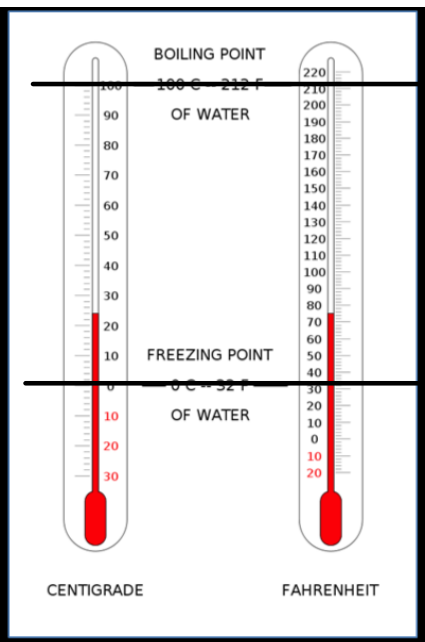
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The diagram shows two thermometers side-by-side. The left thermometer is labeled 'CENTIGRADE' and has a scale from 0 to 100. The right thermometer is labeled 'FAHRENHEIT' and has a scale from 0 to 220. Two horizontal lines are drawn across both thermometers. The top line is labeled 'BOILING POINT OF WATER' and shows 100°C on the Celsius scale and 212°F on the Fahrenheit scale. The bottom line is labeled 'FREEZING POINT OF WATER' and shows 0°C on the Celsius scale and 32°F on the Fahrenheit scale. The text 'base formula' is written to the left of the Fahrenheit scale, with an arrow pointing to the conversion formula.

3) "180°" difference between freezing and boiling of water in F!
180 is our magic #
think boiling and get to 180!!!
 base formula $(F - 32)/1.8 = C$
 $(212 - 32) = 180$
 $180/1.8 = 100$
 $(212^{\circ}F - 32)/1.8 = 100^{\circ}C$

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The diagram is identical to the one above, showing two thermometers with boiling and freezing points of water marked. The text 'base formula' is written to the left of the Fahrenheit scale, with an arrow pointing to the conversion formula.

3) "180°" difference between freezing and boiling of water in F!
180 is our magic #
think boiling and get to 180!!!
 base formula $(C \times 1.8) + 32 = F$
 $(100^{\circ}C \times 1.8) = 180$
 $180 + 32 = 212^{\circ}F$
 $(100^{\circ}C \times 1.8) + 32 = 212^{\circ}F$

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