



PUSH.

"In Union is Strength."

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Notes on Meteorology.

Walter. I have received two thermometers and tested them as you directed, but I find one shows 32 and the other 0 when placed in the ice water. What does this mean?

Mr. B. Your instruments are graded differently; one is a Fahrenheit, the other a Centigrade, and as the latter is likely to come into general use before long, it would be well to keep it, and it is quite simple to transfer from one scale to the other.

Walter. Is the process a difficult one?

Mr. B. No. Let us place the instruments side by side. Near the top of the stems you see the boiling point of water marked 212, on the Fahrenheit, or 180 degrees between the boiling and the freezing point, while in the Centigrade there are 100 degrees between the same points. Now let us compare the relative length of the degrees on each:

100 Cent. = 180 Fah.
1 Cent. = 9/5ths Fah.
180 Fah. = 100 Cent.
1 Fah. = 5/9ths Cent.

Walter. I understand that quite well, but would you work out an example for me?

Mr. B. Suppose your Centigrade showed a temperature of 20 degrees. Then $20 \times 9/5 = 36$ Fahrenheit degrees; to this result we must add 32 degrees, since the freezing point on this instrument begins at 32, while on the Centigrade you observe the same point of temperature begins at 0. Our final result is 68, and this is the temperature as would be shown by the Fahrenheit. Again, suppose the Fahrenheit showed a temperature of 77 degrees, subtract 32 and take five-ninths of the remainder; the result, 25, would be the temperature according to the Centigrade.

Walter. I thank you. I shall try a few examples myself and let you know at our next meeting whether any other difficulties have appeared.

Owing to our regular publication day (Friday) being a public holiday, we have issued PUSH a day earlier this week.