

Answer on Question #90439, Physics / Mechanics | Relativity

Which is the smaller temperature increment. Is it a degree Celsius or a degree Fahrenheit?
Explain your answer.

Solution:

0°C is equivalent to 32°F .

100°C is equivalent to 212°F .

There are $(100-0) = 100$ divisions in Celsius scale and $(212-32) = 180$ divisions in Fahrenheit scale.

Therefore, 100 divisions in Celsius scale = 180 divisions on Fahrenheit scale.

$$\frac{1 \text{ division in Celsius scale}}{1 \text{ division in Fahrenheit scale}} = 1.8$$

So, 1°F is smaller temperature increment than 1°C .

Answer: A degree Fahrenheit is smaller temperature increment.

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