Question.

The relationship between the Fahrenheit and Celsius temperature scales is given by

C=(5/9) (F-32).

If 60<=F<=80, express the corresponding range for C in terms of an inequality.

$$°C = \frac{5}{9}(°F - 32)$$

$$60 \leq °F \leq 80$$

$$°C = ?$$

Solution.

$$°F = 60 \rightarrow °C = \frac{5}{9}(60 - 32) = \frac{140}{9} \approx 15.556 \approx 15.6$$

$$°F = 80 \rightarrow °C = \frac{5}{9}(80 - 32) = \frac{240}{9} \approx 26.667 \approx 26.7$$

So,

if $60 \leq °F \leq 80$, then $15.6 \leq °C \leq 26.7$

Answer.

$$15.6 \leq °C \leq 26.7$$