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ENG 282

Question 1

T_1 of thermometer = 10°C

T_2 " " = 20°C

Time taken = 5 minutes = 300 sec

$$\Delta T = 20 - 10 = 10^\circ\text{C}$$

$$\text{find } T = 24.9^\circ\text{C} \quad \Delta T_c = 24.9 - 10 = 14.9^\circ\text{C}$$

14.9°C to sc

10 sc to 300×14.9

$$10 \text{ sc} = 4470$$

$$\text{sc} = 447$$

$$\text{sc} = 447 \text{ seconds}$$

$$\text{sc} = 7 \text{ minutes } 27 \text{ seconds}$$