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Mat No: 19/EN605/068

1. Initial temp,  $T_0 = 10^\circ\text{C}$

Temperature after 5 mins  $T_1 = 20^\circ\text{C}$

Final temp,  $T_2 = 25^\circ\text{C}$

Thus, it took 5 mins for the temperature to rise by  $(T_1 - T_0) = (20 - 10) = 10^\circ\text{C}$ .

Time taken to reach  $25^\circ\text{C} =$

$$\frac{T_2 - T_0}{T_1 - T_0} \times 5$$

$$= \frac{25 - 10}{20 - 10} \times 5$$

$$= \frac{15}{10} \times 5 = 7.5 \text{ mins after}$$

the thermometer is inserted in the system.

yimaquiz2.m x +

```
commandwindow  
clear  
clc  
close all  
format short g  
mdata=xlsread('onlinequizdata','fluiddata')  
x=mdata(1:2:250,1)  
y=mdata(1:2:250,2)  
plot(x,y)  
grid on  
grid minor
```

I

Command Window

86  
88  
90  
92  
94  
96  
98  
100  
102

