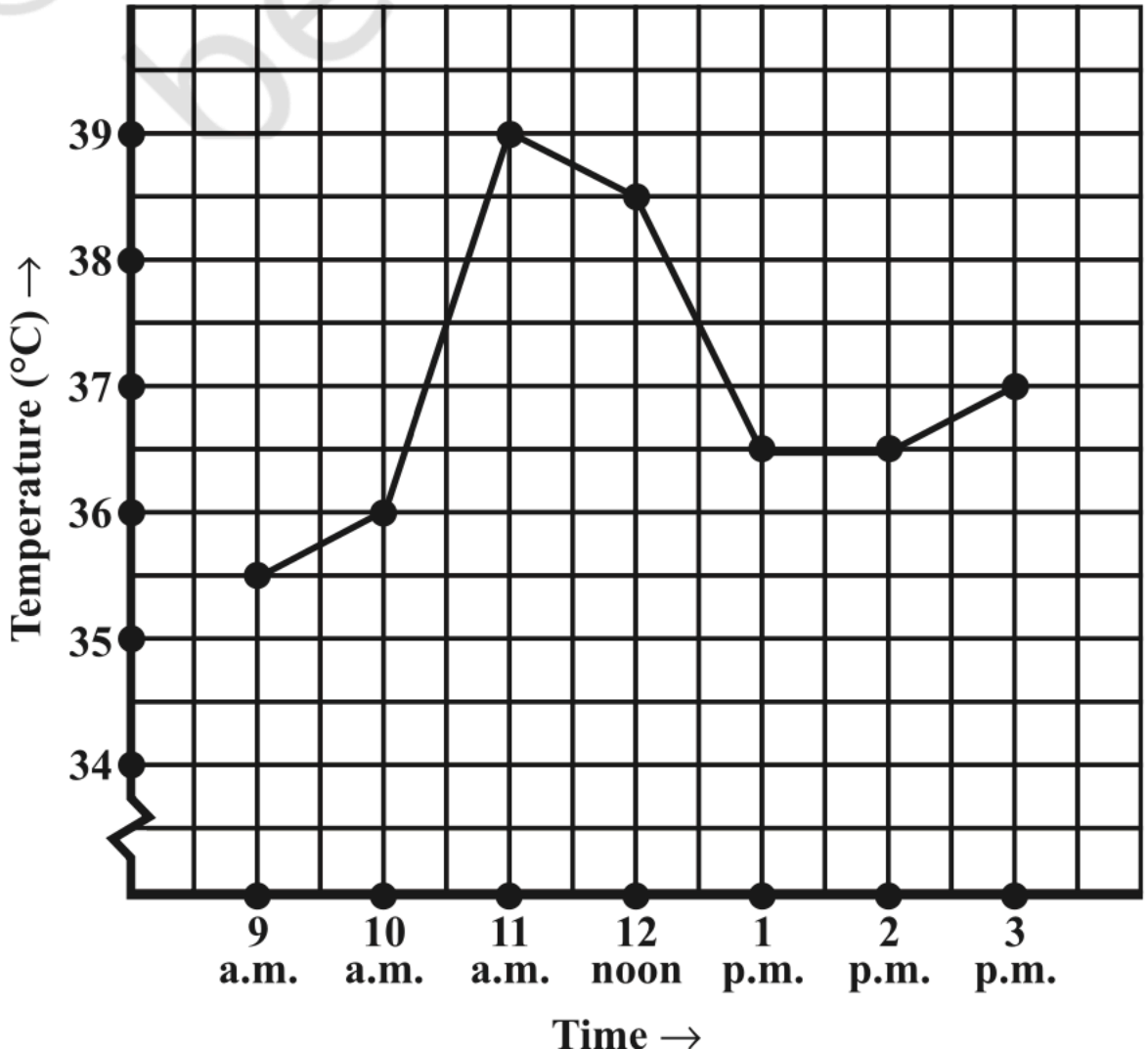
1. The following graph shows the temperature of a patient in a hospital, recorded every hour.

(a) What was the patient's temperature at 1 p.m. ?

(b) When was the patient's temperature 38.5° C?



(c) The patient's temperature was the same two times during the period given. What were these two times?

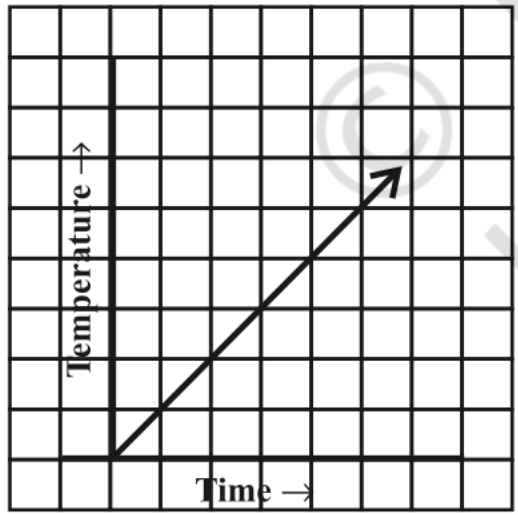
(d) What was the temperature at 1.30 p.m.? How did you arrive at your answer?

(e) During which periods did the patients' temperature showed an upward trend?

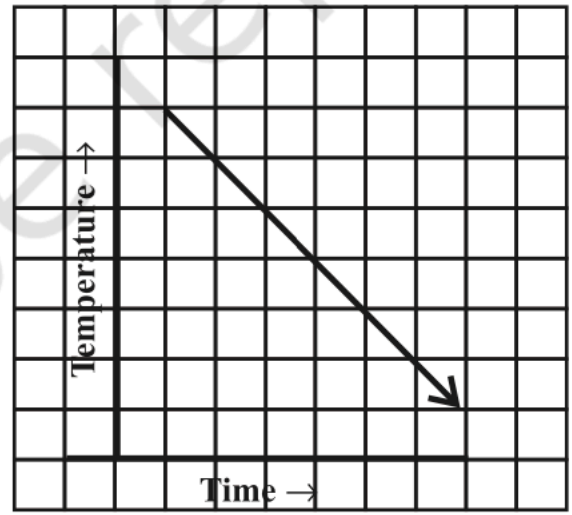
Time →

7. Can there be a time-temperature graph as follows? Justify your answer.

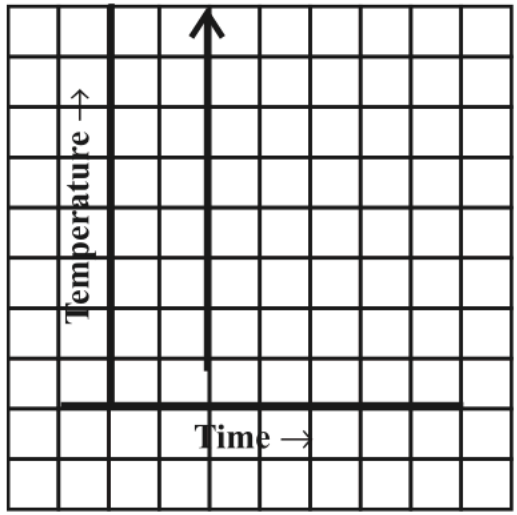
(i)



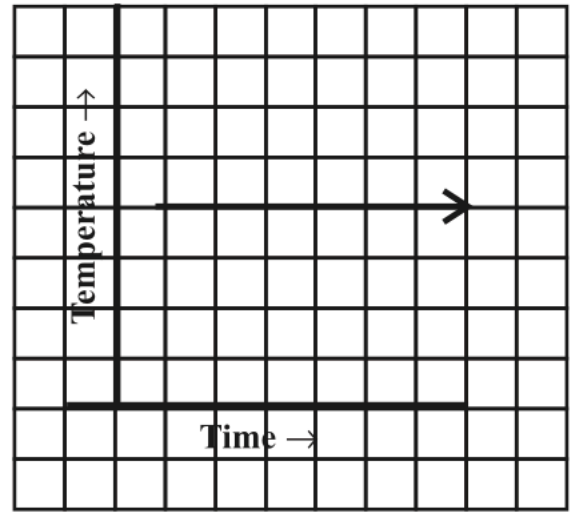
(ii)



(iii)



(iv)



8. Water is pouring into a cubiodal reservoir at the rate of 60 litres per minute. If the volume of reservoir is 108 m^3, find the number of hours it will take to fill the reservoir.

5. Find the height of the cylinder whose volume is 1.54 m^3 and diameter of the base is 140 cm ?

7. If each edge of a cube is doubled,

(i) how many times will its surface area increase?

(ii) how many times will its volume increase?

Example 9: The population of a city was 20,000 in the year 1997. It increased at the rate of 5% p.a. Find the population at the end of the year 2000.

3. A scooter was bought at ₹ 42,000. Its value depreciated at the rate of 8% per annum. Find its value after one year.