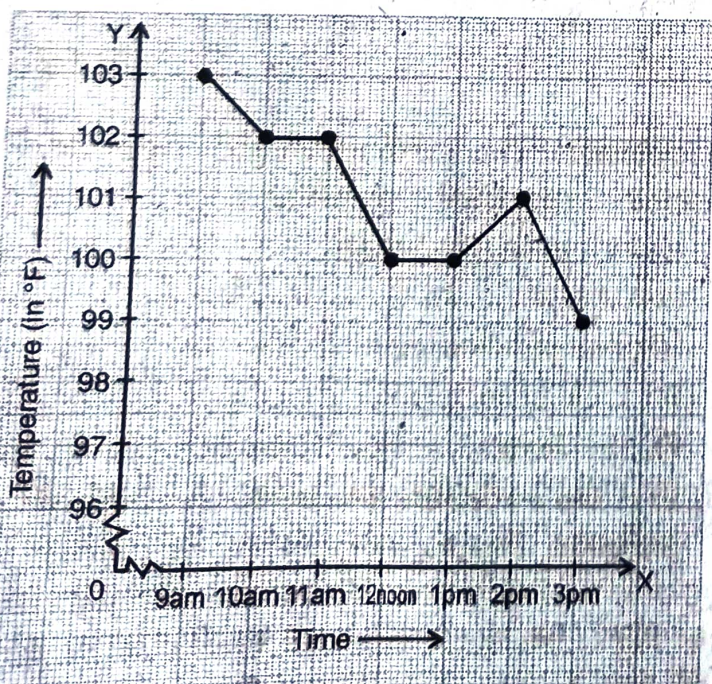


## TEXT BOOK EXERCISE 13.2

**Q. 1.** The following graph shows temperature of a patient in a hospital recorded every hour

- (i) What was the patient's temperature at 2 p.m. and 3 p.m. ?
- (ii) When was the patient's temperature  $100^{\circ}\text{F}$  ?
- (iii) On which two times the patient's temperature was same ?

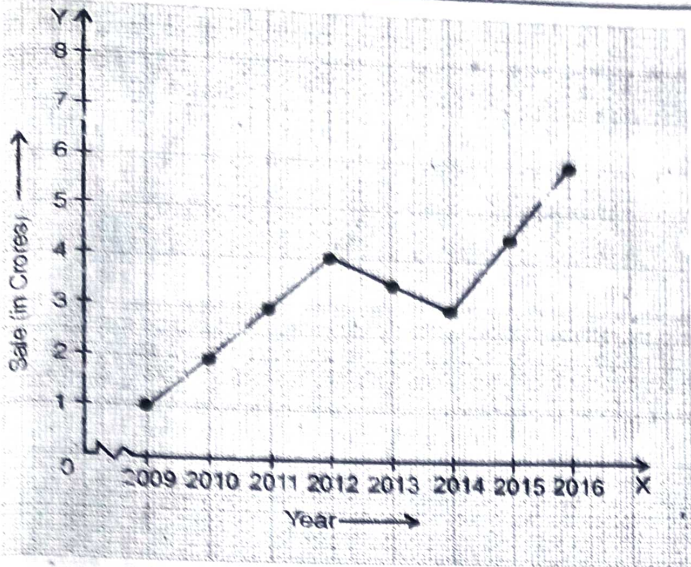


**Solution.** We observe from the given graph that

- (i) The patient's temperature at 2 p.m. was  $101^{\circ}\text{F}$   
The patient's temperature at 3 p.m. was  $99^{\circ}\text{F}$ .
- (ii) At 12 noon and 1 p.m. the patient's temperature was  $100^{\circ}\text{F}$ .
- (iii) At 12 noon and 1 p.m. the patient's temperature was same.

**Q. 2.** The following line graph shows the yearly sales figures for a manufacturing company

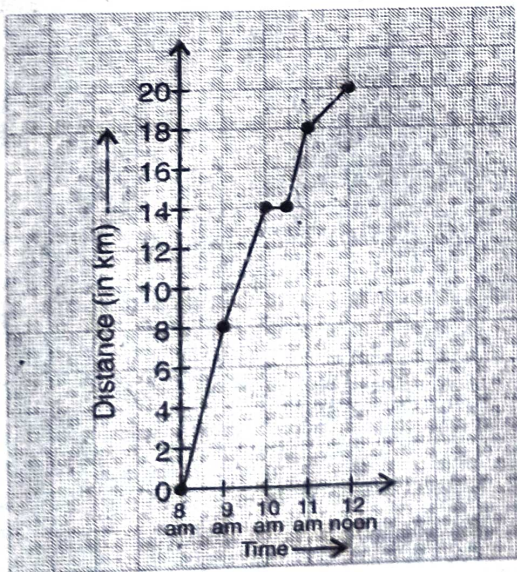
- (i) What was the sales in 2010, 2011, 2014, 2016 ?
- (ii) Compute the difference between the sales in 2015 and 2013.
- (iii) Whether the sale was same in every year ?



**Solution.** We observe from the given graph that

- (i) The sales in 2010 was 2 crores  
The sales in 2011 was 3 crores  
The sales in 2014 was 3 crores  
The sales in 2016 was 6 crores.
- (ii) Sales in 2015 = 4.5 crores  
Sales in 2013 = 3.5 crores  
Difference between the sales in 2015 and 2013 =  $4.5 \text{ crores} - 3.5 \text{ crores} = 1 \text{ crore}$ .
- (iii) No, the sale was not same every year.

**Q. 3.** A person cycles from a town to a neighbouring area to deliver a packet to a merchant. His distance from the town at different times is shown by the graph.



- (i) What information is given in the graph ?

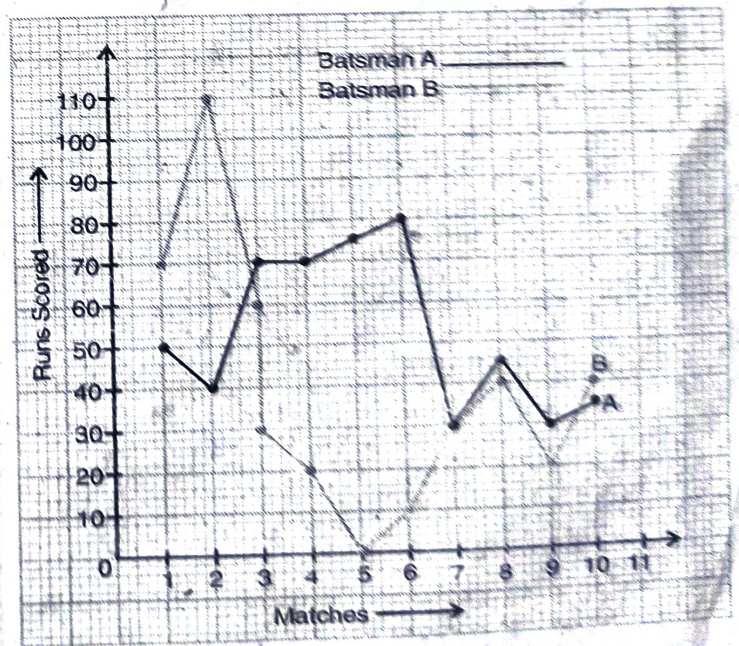
- (ii) How much time did the person take for the travel ?
- (iii) How far is the place of the merchant from the town ?
- (iv) Did the person stop travelling on his way ? Explain.

**Solution.** We observe from the given graph that

- (i) The graph shows distance covered in different times.
- (ii) The person took 4 hours for the travel.
- (iii) The place of the merchant from the town was at a distance of 20 km.
- (v) Yes, the person stopped. He stopped at 10 a.m.

**Q. 4.** The graph shows the run scored by two batsmen A and B in ten matches during the year 2016. Study the graph and answer the following questions.

- (i) Whether batsman B scored more than 100 runs in any match. If yes then in which match ?
- (ii) Whether in any match batsmen A and B scored same run. If yes then in which match ?
- (iii) Among the two batsmen, who is more consistent ? How do you judge it ?

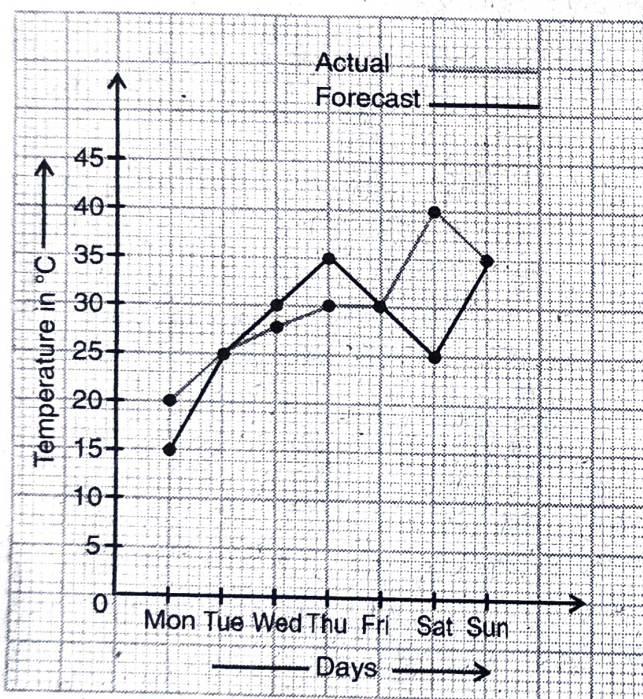


**Solution.** We observe from the given graph that

- (i) Yes, batsman B scored more than 100 runs. He scored more than 100 runs in 2nd match.
- (ii) Yes, batsmen A and B scored same run. They scored same runs in 7th match.
- (iii) The batsman A is more consistent.

**Q. 5.** The following graph shows the temperature forecast and the actual temperature for each day of a week. Study the graph and answer the following.

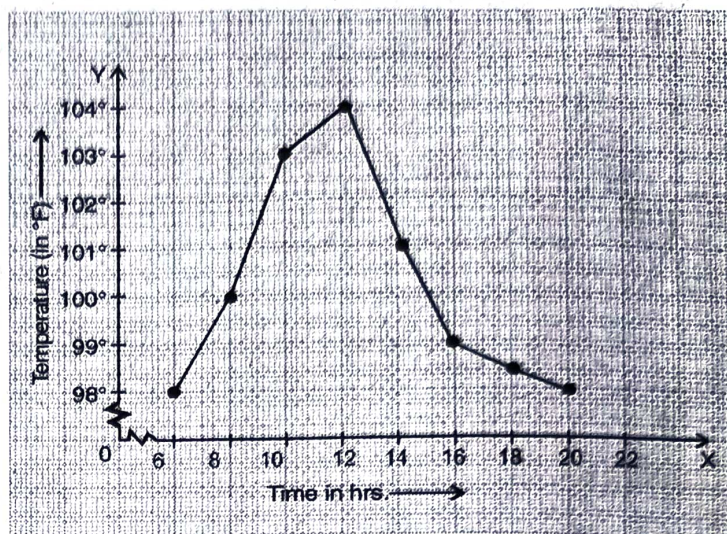
- (i) On which days was the forecast temperature is same as the actual temperature ?
- (ii) What was the maximum actual temperature during the week ?
- (iii) On which day the actual temperature differ the most from the forecast temperature ?



**Solution.** We observe from the given graph that

- (i) On Tuesday, Friday and Sunday the forecast temperature was the same as the actual temperature.
- (ii) The maximum actual temperature during the week was  $40^{\circ}\text{C}$ .
- (iii) On Saturday the actual temperature differ the most from the forecast temperature.

**Q. 6.** Observe the following Temperature-Time graph and answer the following questions :



- (i) On which time the temperature is maximum ?
    - (a) 12 hours
    - (b) 14 hours
    - (c) 6 hours
    - (d) 20 hours.
  - (ii) On which time, the temperature is minimum ?
    - (a) 8 hours
    - (b) 12 hours
    - (c) 14 hours
    - (d) 6 hours and 20 hours.
  - (iii)  $103^{\circ}\text{F}$  temperature is on the time :
    - (a) 10 hours
    - (b) 12 hours
    - (c) 14 hours
    - (d) 20 hours.
  - (iv) What is the difference of temperature at 6 hours and 20 hours ?
    - (a)  $0^{\circ}\text{F}$
    - (b)  $1^{\circ}\text{F}$
    - (c)  $2^{\circ}\text{F}$
    - (d)  $3^{\circ}\text{F}$ .
  - (v) What is the rise in temperature from 10 hours to 12 hours ?
    - (a)  $1^{\circ}\text{F}$
    - (b)  $2^{\circ}\text{F}$
    - (c)  $3^{\circ}\text{F}$
    - (d)  $4^{\circ}\text{F}$ .
- Ans.** (i) (a) 12 hours  
 (ii) (d) 6 hours and 20 hours  
 (iii) (a) 10 hours  
 (iv) (a)  $0^{\circ}\text{F}$   
 (v) (a)  $1^{\circ}\text{F}$ .