1. The graph which is used to compare two different data items related to same situation using bars is a

    (a) pie graph   (b) double bar graph   (c) histogram   (d) line graph

2. The graph that shows comparison among categories using vertical or horizontal bars is

    (a) histogram   (b) bar graph   (c) line graph   (d) pie graph

Directions (3–7): Observe the graph carefully and answer the following questions.

Sales of a shopkeeper on various days of a week
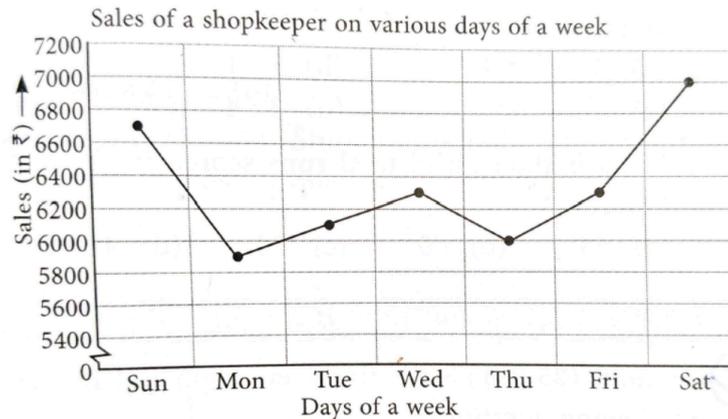

3. What was the sales on Monday?

    (a) ₹ 5700   (b) ₹ 6700   (c) ₹ 5900   (d) None of these

4. On which day the sales was maximum?

    (a) Sunday   (b) Saturday   (c) Monday   (d) Both (a) & (b)

5. What was the total sales of the whole week?

    (a) ₹ 34400   (b) ₹ 43400   (c) ₹ 44300   (d) ₹ 44000

6. What is the difference between the sales on Saturday and Sunday?

    (a) ₹ 13700   (b) ₹ 300   (c) ₹ 700   (d) None of these

7. On which two days was the sales same and how much?

    (a) Wednesday and Friday, ₹ 6200   (b) Saturday and Tuesday, ₹ 6000

    (c) Wednesday and Friday, ₹ 6300   (d) Saturday and Tuesday, ₹ 6100

Directions (8–11): The following graph shows the record of patient's body temperature in a hospital. Observe the graph carefully and answer the following questions.

8. At what time the body temperature of patient was highest?

   (a) 11a.m. and 12 noon   (b) 12 noon and 1 p.m.

   (c) 11a.m. and 1p.m.   (d) 2 p.m. and 3 p.m.

9. What was the lowest temperature of the patient recorded?

   (a) 37°C   (b) 34°C   (c) 33°C   (d) 32°C

10. According to the record, the patient recorded?

   (a) 3.5°C   (b) 3°C   (c) 2°C   (d) 4°C

11. How many hours did the patient's body temperature remain constant?

   (a) 2 hours   (b) 3 hours   (c) 4 hours   (d) None of these

Directions (12–16): The following graph shows the stamps collected in various years by a group of friends for an exhibition. Observe the graph and answer the questions given below.

12. In which year did the friends collect least number of stamps?

   (a) 2018   (b) 2014   (c) 2015   (d) 2012

13. What is the ratio of number of stamps collected in 2015 and 2018?

   (a) 24 : 25   (b) 13 : 24   (c) 21 : 25   (d) 12 : 13

14. How many stamps did they collect in all?

   (a) 735   (b) 750   (c) 740   (d) 745

15. What is the difference between the number of stamps they collected in the two leap years?

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(a) 30   (b) 25   (c) 35   (d) 40

16. What is the difference between the maximum and minimum number of stamps collected in various years?

     (a) 40   (b) 45   (c) 35   (d) 50

Directions (17-21): The following graph shows the Tuns made by a team in the first ten overs of a cricket match. Answer the following questions based on the information given in the graph.
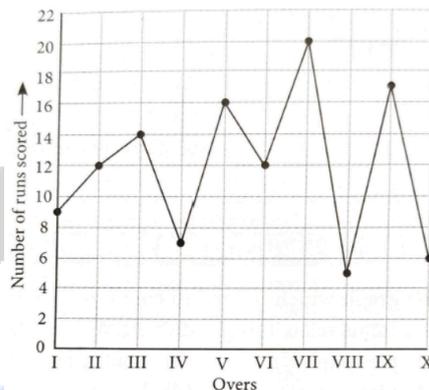
17. In which over, did the team score maximum runs?

     (a) III   (b) IX   (c) IV   (d) VII

18. What is the difference between the runs scored in first and tenth over?

     (a) 3   (b) 15   (c) 6   (d) None of these

19. What is the average runs scored by them in the ten overs (corrected to nearest integer)?

     (a) 11   (b) 12   (c) 10   (d) 18

20. What is the ratio of the maximum and minimum runs scored?

     (a) 3: 1   (b) 4: 1   (c) 2: 3   (d) 3: 4

21. What is the sum of total runs scored in the first 5 overs?

     (a) 58   (b) 60   (c) 70   (d) 48

Directions (22–26): Study the given graph and answer the following questions.
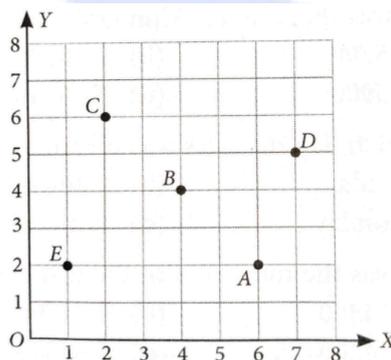
22. Which of the following points has the coordinates $(5,7)$?

     (a) A   (b) B   (c) D   (d) None of these

23. Which of the following points is farthest from x -axis?

(a) A   (b) B   (c) C   (d) D

24. Which of the following points is equidistant from both the axes?

(a) A   (b) D   (c) C   (d) B

25. Which of the given points is at a distance of 2 units from y-axis?

(a) C   (b) E   (c) A   (d) D

26. What is the coordinates of the point A ?

(a) (2,6)   (b) (6,2)   (c) (2,5)   (d) (5,2)

**Directions (27–31):** Study the given graph and answer the following questions.
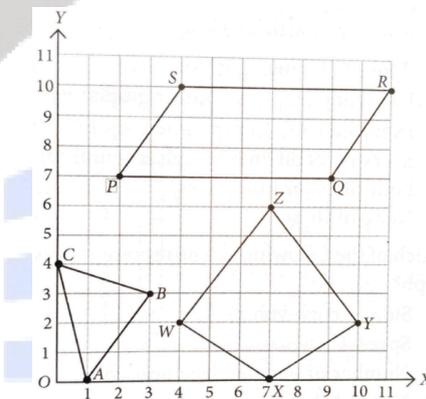
27. The coordinates of the point Z is

(a) (6,6)   (b) (6,7)   (c) (7,6)   (d) (7,7)

28. The x-coordinates of which of the following points is same?

(a) W and S   (b) S and R   (c) Q and P   (d) None of these

29. The y-coordinates of which of the following points is not same?

(a) P and S   (b) W and Y   (c) P and Q   (d) None of these

30. The point whose x-coordinate is zero is

(a) C   (b) A   (c) X   (d) Both (a) and (b)

31. The difference between y-coordinates of C and Z is

(a) 3   (b) 2   (c) 4   (d) 6

Directions (32–36): Study the given graph and answer the following questions.
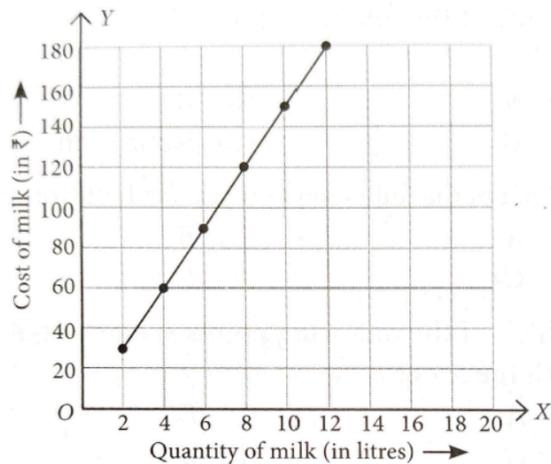
32. What is the cost of milk per litre?
     (a) ₹ 20   (b) ₹ 25   (c) ₹ 15   (d) ₹ 30
33. What is the cost of 16 litres of milk?
     (a) ₹ 220   (b) ₹ 210   (c) ₹ 240   (d) ₹ 255
34. What is the cost of 10.5 litres of milk?
     (a) ₹ 78.75   (b) ₹ 165   (c) ₹ 172.50   (d) ₹ 157.50
35. How many litres of milk can be bought from ₹ 187.5 ?
     (a) 15 litres   (b) 7.5 litres   (c) 17.5 litres   (d) 12.5 litres
36. The coordinates of the point related to 1 / 2 litre of milk is
     (a) (1,7.5)   (b) (0.5,7.5)   (c) (7.5,0.5)   (d) (7.5,1)
37. Comparison of parts of a whole may be done by a
     (a) bar graph   (b) pie chart   (c) linear graph   (d) line graph

38.   In the given graph, the letter that indicates the point (0,3) is
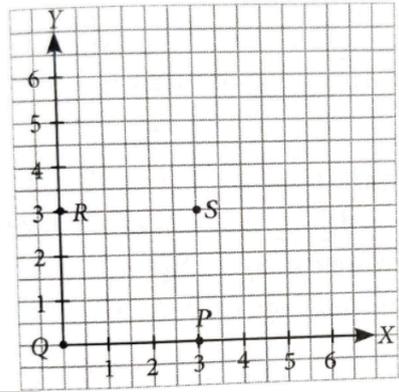
(a) P   (b) Q   (c) R   (d) S
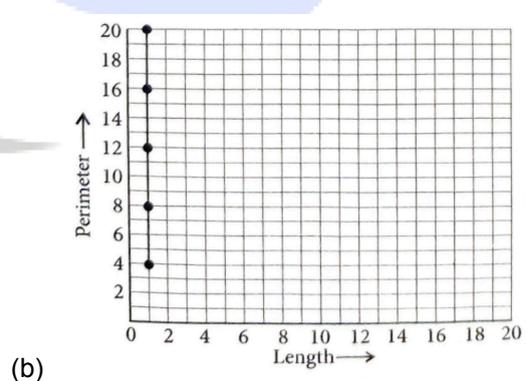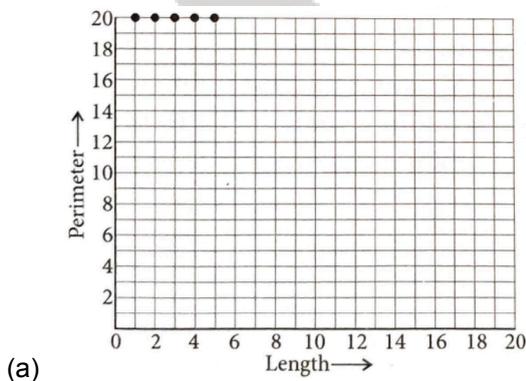
39.   Data was collected on a student's typing rate and graph was drawn as shown below: Approximately how many words had this student typed in 30 seconds?
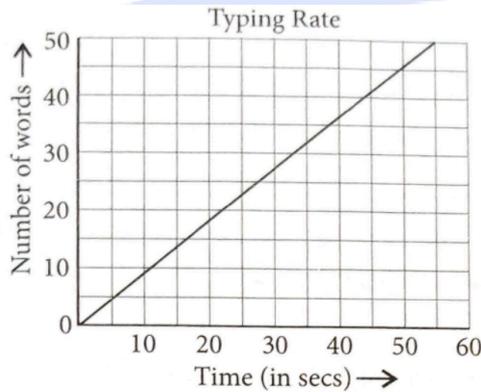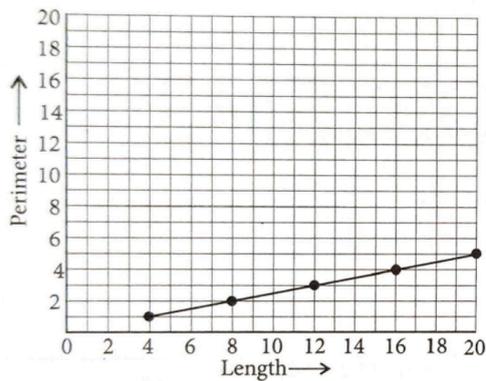

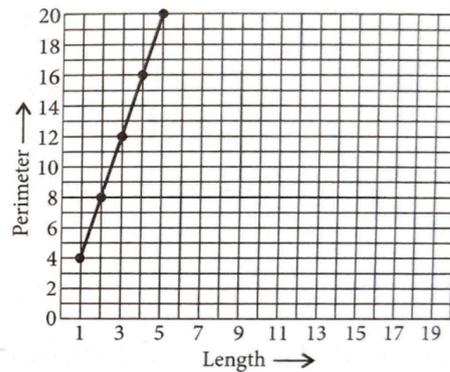(a) 20   (b) 24   (c) 28   (d) 34

40.   Which graphs of the following represent the table below?

Length of side of a square	1	2	3	4	5
Perimeter	4	8	12	16	20

(a)   (b)

(c)

(d)

Assertion-Reason Questions

Statement–I: By joining the mid–points of top most widths of all bars of a bar graph, we can get a line graph.

Statement–II: Liné graph can never be obtained from any other graph.

Statement–I: A line graph becomes linear if the change over the period of time is always constant.
Statement–II: In linear graph the relation between two values of every point remains same throughout.

41. **Statement–I:** The relation Distance–Time at constant speed form a linear graph.

     Statement–II: The speed of a vehicle at various regular intervals can be represented using line graph.

42. **Statement–I:** The point $A(3,5)$ is at a distance of 3 units from y axis.

     Statement–II: The point $P(a,b)$ is at distance of b units from y –axis and a units from x –axis.

43. **Statement–I:** The point $(0,6)$ lies on y –axis.

     Statement–II: The x –coordinate of any point lying on y –axis will be zero.

44. **Statement–I:** The points $P(2,3), Q(5,3), R(5,5)$ and $S(2,5)$ represent a rectangle on the graph.

     Statement–II: The plane along with the x –axis and y –axis is called the cartesian plane.

ANSWERS

1. B	2. B	3. C	4. B
5. C	6. B	7. C	8. C
9. C	10. D	11. D	12. D
13. D	14. B	15. A	16. D
17. D	18. A	19. B	20. B
21. A	22. D	23. C	24. D
25. A	26. B	27. C	28. A

29. A	30. A	31. B	32. C
33. C	34. D	35. D	36. B
37. B	38. C	39. C	40. D
41. B	42. C	43. A	44. B