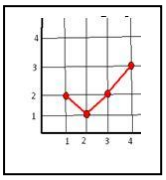
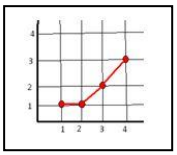
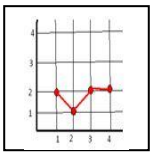
Uncovered Module System (UMS)

Chapter Name – Introduction to Graph

Class- 8th

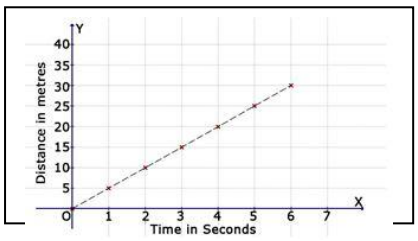
Remember & Understanding Based Questions

Ques.1) Plot a line graph for the following points (1, 2), (2, 1), (3,2), (4,3).

a)  b)  c)  d) None of These

Ques.2) A graph that displays data that changes continuously over periods of time is
a) Histogram b) Line graph c) Pie chart d) Bar graph

Ques.3) Find the distance covered in 4 seconds.



a) 10 m b) 5 m c) 20 m d) 15 m

Ques.4) Ajit can ride a scooter constantly at a speed of 30 kms/hour. Draw a time - distance graph for this situation. Use it to find

1. The time taken by Ajit to ride 75 km.
2. The distance covered by Ajit in $3\frac{1}{2}$ hours.

Ques.5) State True & False

1. In a map, the objects which are closer to the observer are shown to be of greater size.

Ques.6) Fill in the Blanks.

1. The relation between dependent and independent variables is shown through a _____.

Ques.7) Shown in the table the interest s on some deposits for a year, use the graph to find that how much money should be deposited to get an interest of Rs 100.

Amount deposited (in Rs)	1000	2000	3000	4000	5000
Simple interest (in Rs)	40	80	120	160	200

a) Rs 4000 b) Rs 2500 c) Rs 3000 d) Rs 2000

Ques.8) Given in the table the cost of math books, find the cost of 7 books by using a graph.

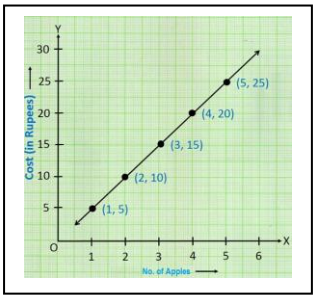
Number of books	2	4	6	8	10
Cost (in Rs)	100	200	300	400	500

a) Rs 350 b) Rs 300 c) Rs 400 d) Rs 450

Analytical Based Questions

Ques.1) Assertion (A): The coordinates of the origin are (0, 0).
Reason (R): The abscissa of origin is 4 and the ordinate is 0.
a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true but R is not the correct explanation of A.
c) A is true but R is false. d) A is false but R is true.

Ques.2) Assertion (A): Given is the line graph for the Number of apples and cost they are sold.

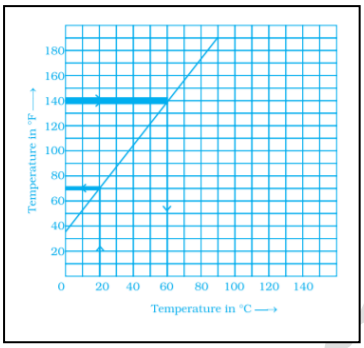


Reason (R): The minimum apples sold are 1 are cost is Rs 5 also the maximum number of apples sold are 5 and cost is ₹ 25.

a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true but R is not the correct explanation of A.
c) A is true but R is false. d) A is false but R is true.

Ques.3) The following is a conversion graph of temperature in $^{\circ}C$ and $^{\circ}F$.
Use the graph to answer the following questions.

1. Convert $140^{\circ}F$ to $^{\circ}C$
2. Convert $20^{\circ}C$ to $^{\circ}F$

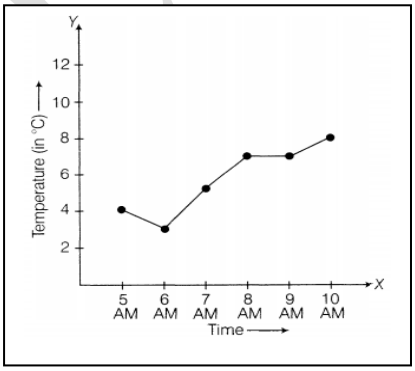


Ques.4) The table shows the data collected for Dhruv's walking on a road.

Time (in minutes)	0	5	10	15	20	25
Distance (in km)	0	0.5	1	1.25	1.5	1.75

1. Plot a line graph for the given data using a suitable scale.
2. In what time periods did Dhruv make the most progress?

Ques.5) The table given below shows the temperatures recorded on a day at different times.

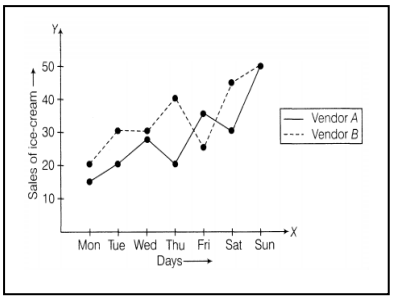


Observe the graph and answer the following questions.

1. What is the temperature at 8 AM?

2. At what time is the temperature 3°C?
3. During which hour did the temperature fall?
4. What is the change in temperature between 7 AM and 10 AM?
5. During which hour was there a constant temperature?

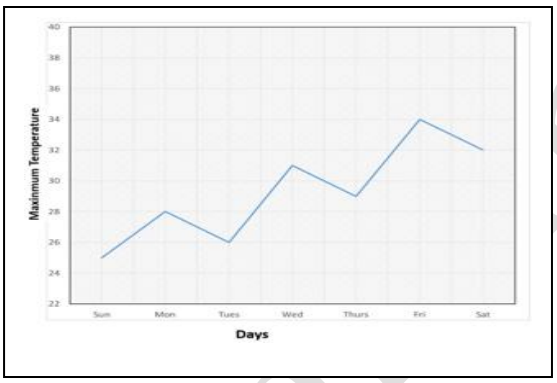
Ques.6) The graph given below compares the sales of ice - creams of two vendors for a week.



Observe the graph and answer the following questions.

1. Which vendor has sold more ice - creams on Friday?
2. For which day were the sales same for both the vendors?
3. On which day did the sale of vendor A increase the most as compared to the previous day?
4. On which day was the difference in sales the maximum?
5. On which two days was the sales same for vendor B?

Ques.7) Study the graph and answer the questions that follow:



1. What is the information obtained from the graph?
2. On which day was the temperature highest?
3. On which day was the temperature 32 °C
4. Which was the coldest day?

Ques.8) The following chart gives the growth in height in terms of percentage of full height of boys and girls with their respective ages.

Age (in years)	8	9	10	11	12	13	14	15	16	17
Boys	72%	75%	78%	81%	84%	88%	90%	95%	98%	99
Girls	77%	81%	84%	88%	91%	95%	98%	99%	99.5%	10

1. Draw the line graph of above data on the same sheet and answer the following questions.
2. In which year both the boys and the girls achieve their maximum height?
3. Who grows faster at puberty (14 yr to 16 yr of age)?

Ques.9) Complete the given tables and draw a graph for each.

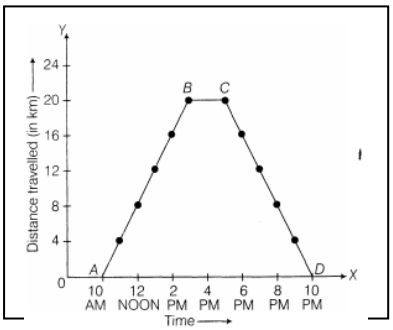
1.

x	0	1	2	3
y = 3x + 1	1	4	-	

2.

x	1	2	4	6
y = x - 1	0	-	-	-

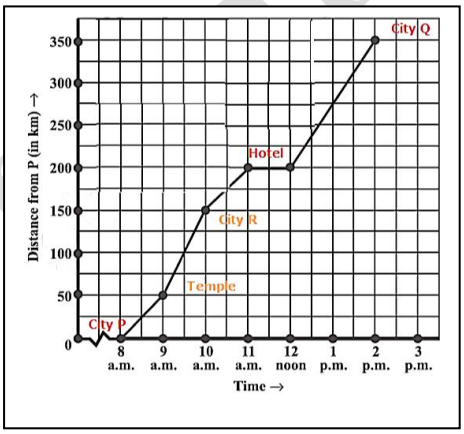
Ques.10) Study the graph given below of a person who started from his home and returned at the end of the day. Answer the questions that follow.



1. At what time did the person start from his home?
2. How much distance did he travel in the first four hours of his journey?
3. What was he doing from 3 PM to 5 PM?
4. What was the total distance travelled by him throughout the day?
5. Calculate the distance covered by him in the first 8 hoursof his journey.
6. At what time did he cover 16 km of his journey?
7. Calculate the average speed of the man from A to B and B to C.
8. At what time did he return home?

Question No. 11 to 14 are based on the given text. Read the text carefully and answer the questions:

Deepak travelled by car from his city P to other city Q. His journey has been plotted in the following graph.



Deepak started at 8 am from P. At 9 am he crossed through a temple but he did not stop there. At 10 AM.He reached at another city R. Now he felt tired and hungry so his eyes were looking for a hotel. After driving for 1 hr he saw a hotel at road side. He decided to stop at hotel for lunch and relaxing .Total time spent at hotel was 1 hr.At 12 pm Deepak again started for city Q. Finally he reached city Q at 2 PM.

Ques.11) How far did the car go during the 2nd hour?

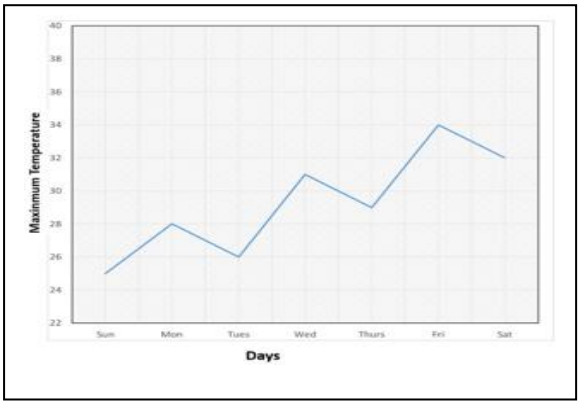
a) 75 km b) 100 km c) 150 km d) 50 km

Ques.12) For which period Deepak stopped at hotel?
a) 10 am to 11 am b) 12 pm to 1 pm c) 11 am to 12 pm d) 9 am to 10 am

Ques.13) What was the speed of car from Hotel to city Q?
a) 40 km/hr b) 75 km/hr c) 50 km/hr d) 100 km/hr

Ques.14) The average speed from city P to Q was _____ km/hr.

Ques.15) Study the graph and answer the questions that follow:



1. What is the information obtained from the graph?
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