MATHS

BOOKS - ASHOK PUBLICATION ASSAM

Data Handling

Example

1. For which of these would you use a histogram to show the data?

The number of letters for different areas in a postman's bag.

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2. For which of these would you use a histogram to show the data?

The height of competitors in an athletics meet.

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3. For which of these would you use a histogram to show the data?

The number of cassettes produced by 5 companies.

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4. For which of these would you use a histogram to show the data?

The number of passengers boarding trains

form 7.00 a.m. to 7.00 p.m at a station.

Give reasons for each.

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5. The shoppers who come to a departmental store are marked as : male(M), woman (W), boy (B) or girl (G). The following list gives the shoppers who came during the first hour in the morning :

W W W G B W W M G G M M W W W G B M W B

G G M W W M M W W W M W B W G M W W W

W G W M W W M W G W M G W M M B G W

Make a frequency distribution table using tally marks. Draw a bar graph to illustrate it.

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6. The weekly wages (in Rs,) of 30 workers in a factory are.

830, 835, 890, 810, 835, 836, 869, 845, 898, 890,
820, 860, 832, 833, 855, 845, 804, 808, 812, 840,
885, 835, 835, 836, 878, 840, 868, 890, 806, 840.

Using tally marks make a frequency table with intervals as 800-810,810-820 and so on.

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7. The number of hours of which students of a particular class watched television during holidays is shown through the given graph.

Answer the following.

How many students watched TV for less than 4 hours?

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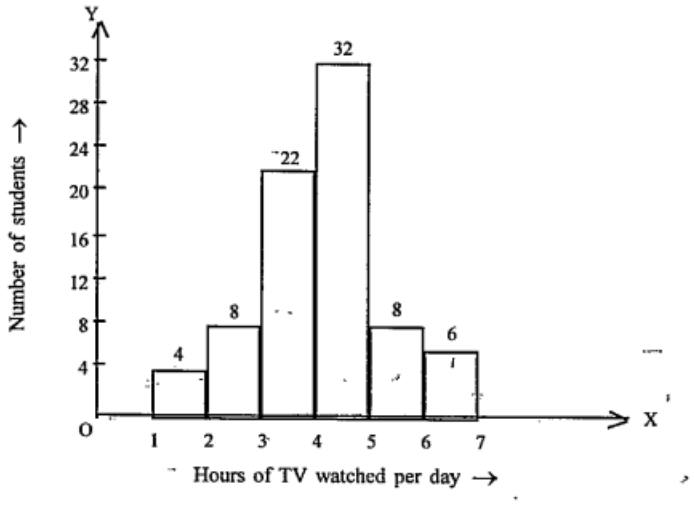
8. The number of hours of which students of a particular class watched television during holidays is shown through the given graph.

Answer the following.

How many students spent more than 5 hours in watchingh TV?



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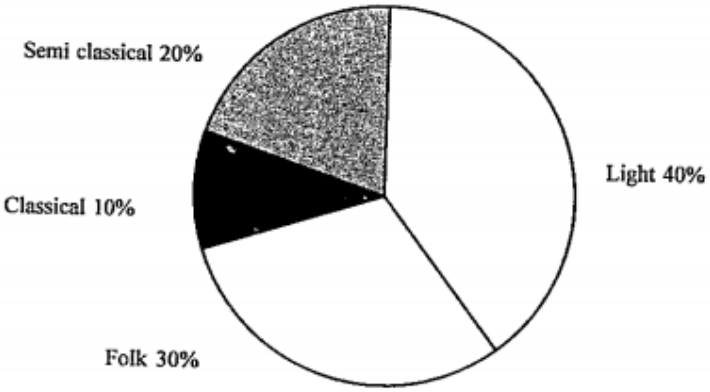
9. A survey was made to find the type of music that a certain group of young people liked in a city. Adjoining pie chart shows the findings of this survey. From this pie chart answer the following:



If 20 people liked classical music, how many young people were surveyed?

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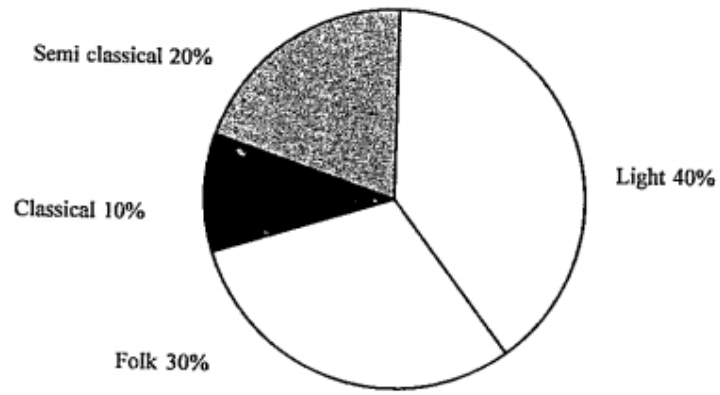
10. A survey was made to find the type of music that a certain group of young people liked in a city. Adjoining pie chart shows the findings of this survey. From this pie chart answer the following:



Which type of music is liked by the maximum number of people?

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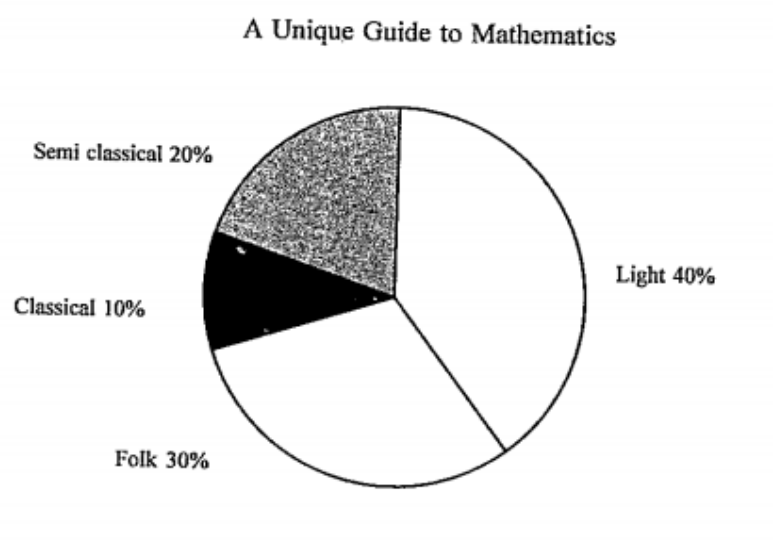
11. A survey was made to find the type of music that a certain group of young people liked in a

city. Adjoining pie chart shows the findings of this survey. From this pie chart answer the following:



If a cassettle company were the make 1000 CD's how many of each type would they make?

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12. A group of 360 people where asked to vote for their favourite season from the three seasons rainy, winter and summer.

Draw a pie chart to show this information.

Season	No. of votes
Summer	90
Painy	120
Winter	150

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13. Draw a pie chart showing the following information. The table shows the preferred by

a group of people.

Colours	Number of people
Blue	18
Green	9
Red	6
Yellow	3
Total	36

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14. The number of students in a hostel, speaking different languages is given below. Display tha data in a pie chart.

Language	Hindi	English	Marathi	Tamil	Bengali	Total
Number of students	40	12	9	7	4	72

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15. Try these

If you try to start a scooter, the possible outcomes?

Watch Video Solution

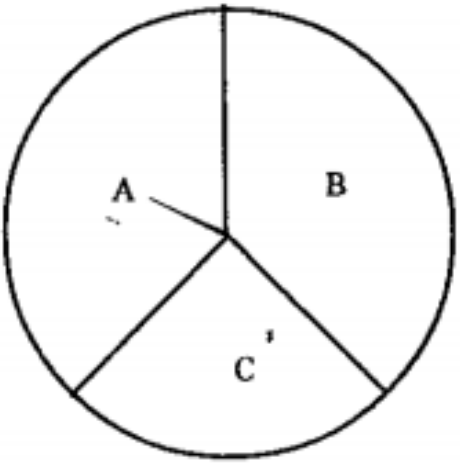
16. Try these

When a die is thrown, what are the six possible outcomes?

Watch Video Solution

17. Try these

When you spin the wheel show, what are the possible outcomes? List them.



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18. You have a Basket with five identical balls of different colours and you are to pull out (draw) a ball without looking at it, list the outcomes you would get.

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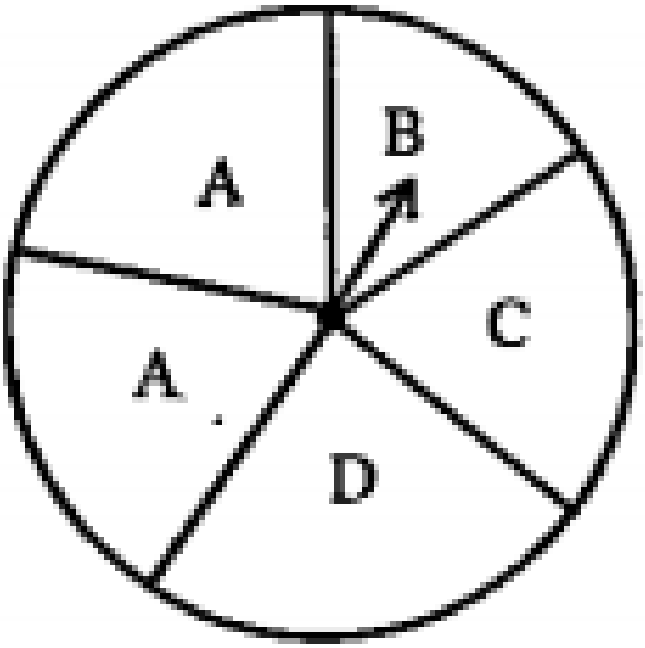
19. List the outcomes you see in these experiments.

Spinning a Wheel



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20. List the outcomes you see in these experiments.

Tossing two coins together

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21. When a die is thrown, list the outcomes of an event of getting.

a prime number, not a prime number, a number greater than 5, a number not greater than 5

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22. Find the

Probability of getting an ace from a well shuffled deck of 52 playing cards?

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23. Numbers 1 to 10 are written on ten separate slips (one number on one slip) kept in a box and mixed well. One slip is chosen from the box without looking into it. What is

the probability of.

getting a number 6?

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24. Numbers 1 to 10 are written on ten separate slips (one number on one slip) kept in a box and mixed well. One slip is chosen from the box without looking into it. What is the probability of.

getting a number less than 6?

Watch Video Solution

25. Numbers 1 to 10 are written on ten separate slips (one number on one slip) kept in a box and mixed well. One slip is chosen from the box without looking into it. What is the probability of.

getting a number greater than 6?

Watch Video Solution

26. Numbers 1 to 10 are written on ten separate slips (one number on one slip) kept

in a box and mixed well. One slip is chosen from the box without looking into it. What is the probability of.

getting a 1-digit number?

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27. If you have a spinning wheel with 3 green sectors, 1 blue sector and 1 red sector, what is the probability of getting a green sector? What is the probability of getting a non blue sector?

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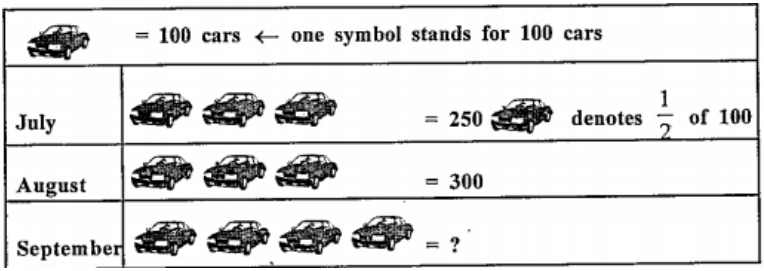
28. A Pictograph : Pictorial representation of data using symbols.



How many cars were produced in the month of July?

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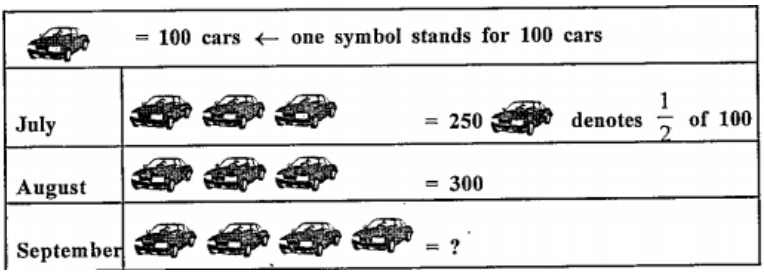
29. A Pictograph : Pictorial representation of data using symbols.



In which month were maximum number of cars produced?

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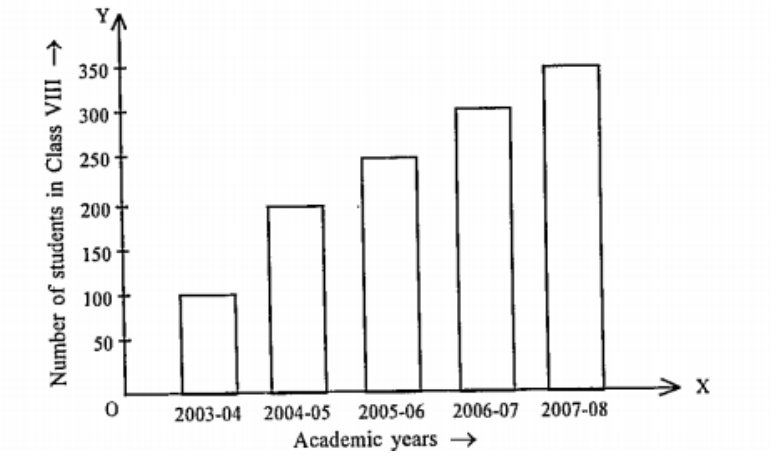
30. A bar graph: A display of information using bars of uniform width, their heights being

proportional to the respective values.



What is the information given by the bar graph?

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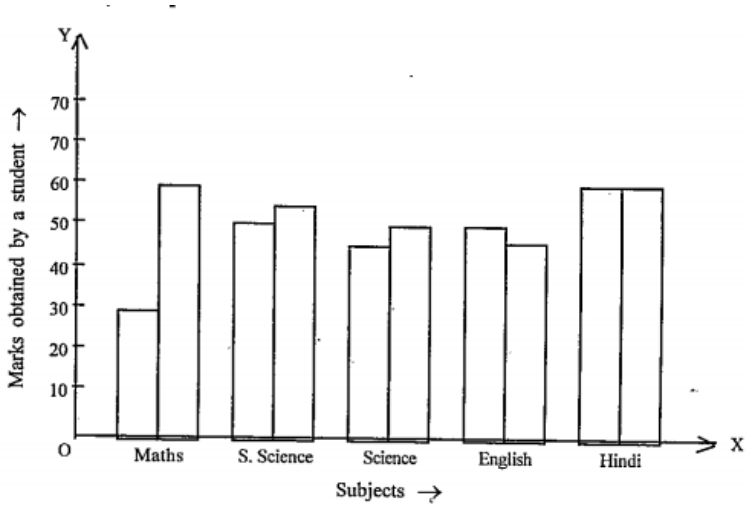
31. Double Bar Graph : A bar graph showing two sets of data simultaneously. It useful for

the comparison of the data.



What is the information given by the double bar graph?

Watch Video Solution

32. Double Bar Graph : A bar graph showing two sets of data simultaneously. It useful for

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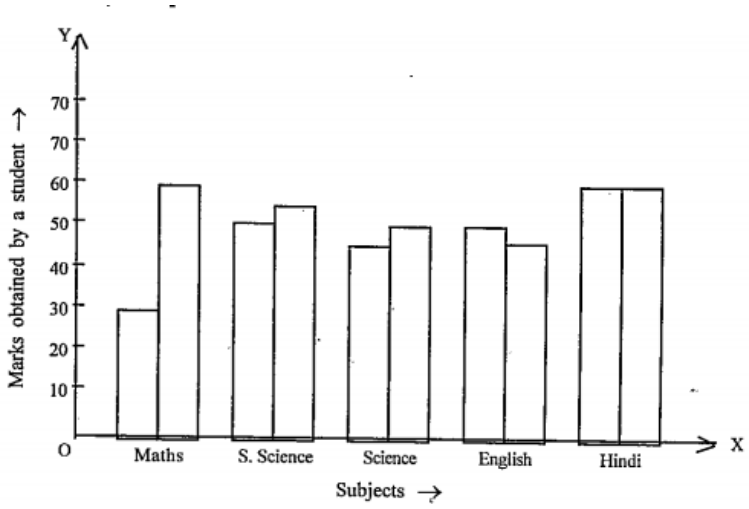

In which subject has the performance improved the most?

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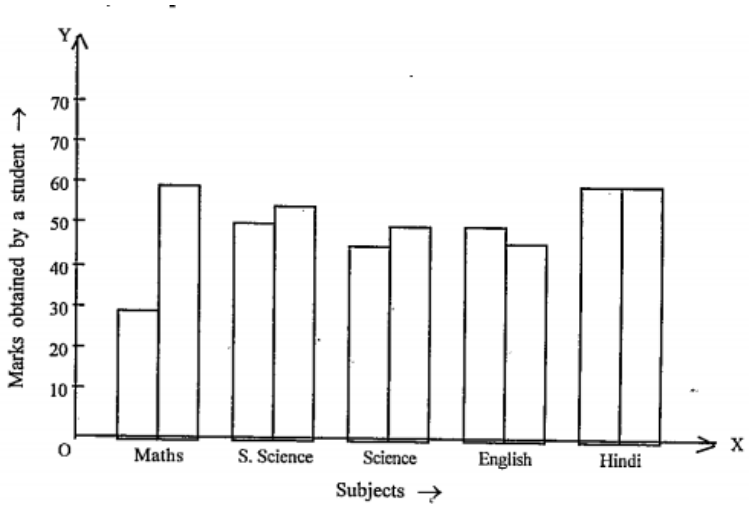
33. Double Bar Graph : A bar graph showing two sets of data simultaneously. It useful for

the comparison of the data.



In which subject has the performance deteriorated?

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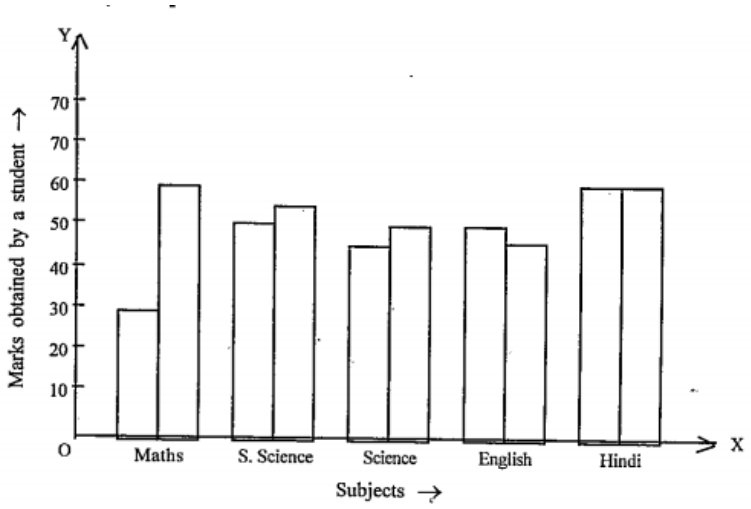
34. Double Bar Graph : A bar graph showing two sets of data simultaneously. It useful for

the comparison of the data.



In which subject is the performance at par?

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35. Draw an appropriate graph to represent the given information.

Month	July	August	September	October	November	December
Number of watches sold	1000	1500	1500	2000	2500	1500

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36. Draw a bar diagram of the following data.

Children who prefer	School A	School B	School C
Walking	40	55	15
Cycling	45	25	35

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37. A group of students were asked to say which animal would like most to have as a pet.

The result are given below :

Dog, Cat, Cat, Fish, Cat, Rabbit, Dog, Cat, Rabbit, Dog, Cat, Dog, Dog, Cat, Cow, Fish, Rabbit, Dog, Cat, Dog, Cat, Cat, Dog, Rabbit, Cat, Fish, Dog.

Make a frequency distribution tavle for the same.

Watch Video Solution

38. Study the following frequency distribution table and answer the question given below. Frequency Distribution of Daily Income of 550 workers of a factory

Class Interval (Daily Income in Rupees)	Frequency (Number of workers)
100-125	45
125-150	25
150-175	55
175-200	125
200-225	140
225-250	55
250-275	35
275-300	50
300-325	20
Total	550

What is the size of the class intervals?

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39. Study the following frequency distribution table and answer the question given below. Frequency Distribution of Daily Income of 550 workers of a factory

Class Interval (Daily Income in Rupees)	Frequency (Number of workers)
100-125	45
125-150	25
150-175	55
175-200	125
200-225	140
225-250	55
250-275	35
275-300	50
300-325	20
Total	550

Which class has the hightest frequency?

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40. Study the following frequency distribution table and answer the question given below. Frequency Distribution of Daily Income of 550 workers of a factory

Class Interval (Daily Income in Rupees)	Frequency (Number of workers)
100-125	45
125-150	25
150-175	55
175-200	125
200-225	140
225-250	55
250-275	35
275-300	50
300-325	20
Total	550

Which class has the lowest frequency?

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41. Study the following frequency distribution table and answer the question given below. Frequency Distribution of Daily Income of 550 workers of a factory

Class Interval (Daily Income in Rupees)	Frequency (Number of workers)
100-125	45
125-150	25
150-175	55
175-200	125
200-225	140
225-250	55
250-275	35
275-300	50
300-325	20
Total	550

What is the appear limit of the class interval 250-275?

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42. Study the following frequency distribution table and answer the question given below. Frequency Distribution of Daily Income of 550

workers of a factory

Class Interval (Daily Income in Rupees)	Frequency (Number of workers)
100-125	45
125-150	25
150-175	55
175-200	125
200-225	140
225-250	55
250-275	35
275-300	50
300-325	20
Total	550

Which two classes have the same frequency?

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43. Construct a frequency distribution table for the data on weights (in kg) of 20 studetns of a class using intervals 30-35, 35-40 and so

on.

40,38, 33, 48, 53, 46, 34, 36, 49, 41, 55, 49, 65, 42, 44, 47, 38, 39.

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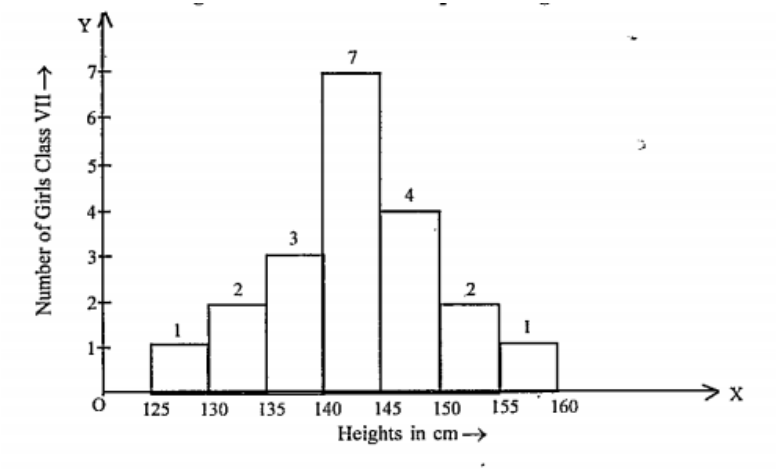
44. Oberve the histogram and answer the questions given below.



What information is being given by the histogram?

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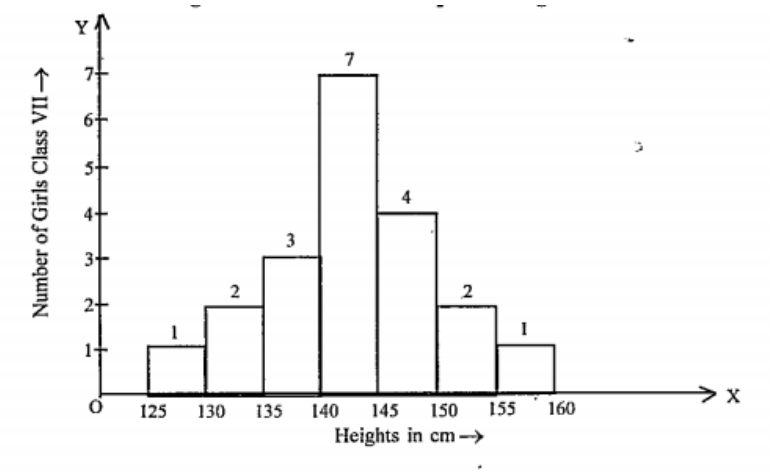
45. Oberve the histogram and answer the questions given below.



Which group contains maximum girls?

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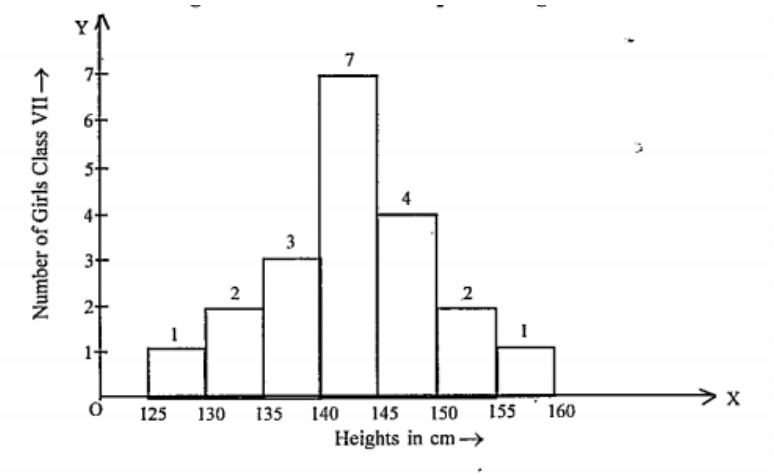
46. Oberve the histogram and answer the questions given below.



How many girls have a height of 145 cms and more?

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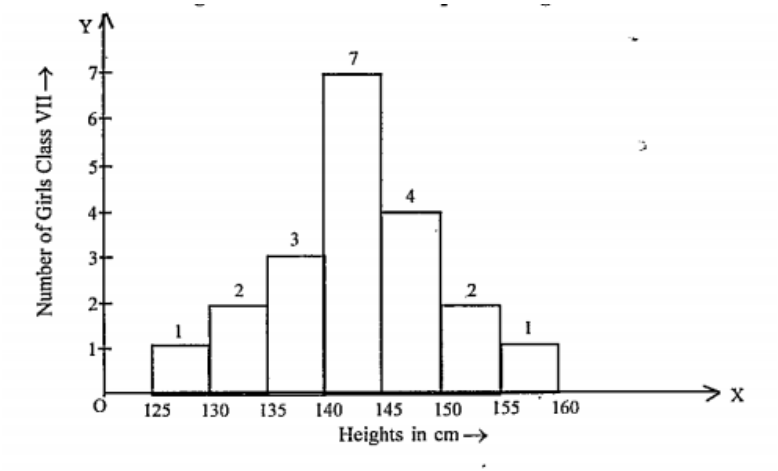
47. Oberve the histogram and answer the questions given below.



If we divide the girls into the following three categories, how many would there be in each?

be in each?

150 cm and more	**– Group A**
140 cm to less 150 cm	**– Group B**
Less than 140 cm	**– Group C**

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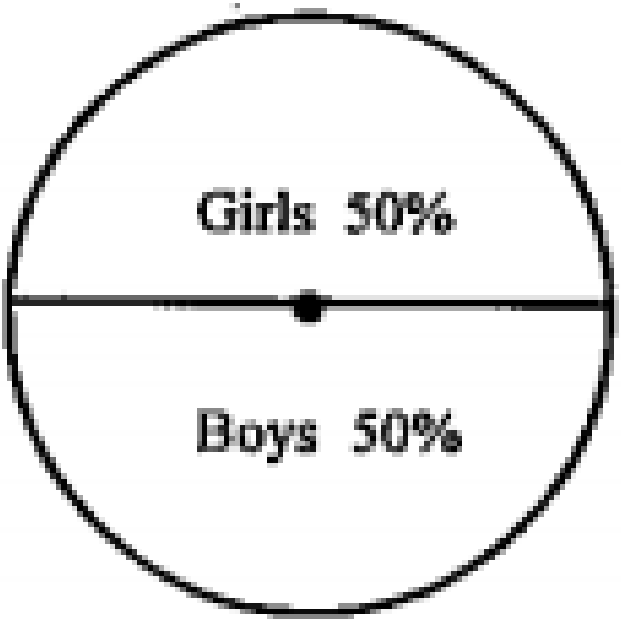
48. Each of the following pie charts gives you a different piece of information about your class. Find the fraction of the circle

representing each of these information.

(i)

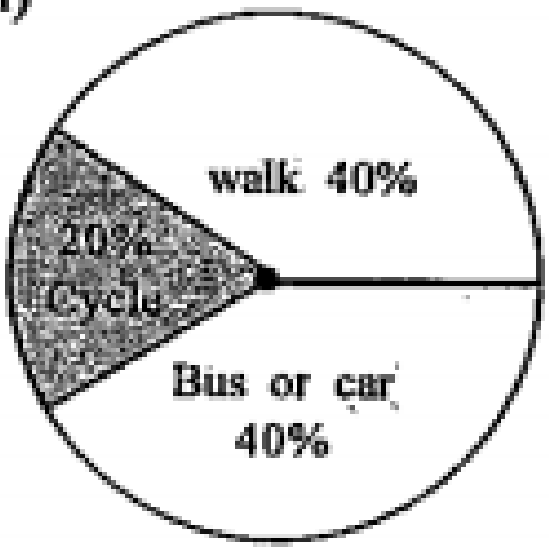


Girls or Boys

Watch Video Solution

49. Each of the following pie charts gives you a different piece of information about your class. Find the fraction of the circle representing each of these information.

(ii)



Transport to school

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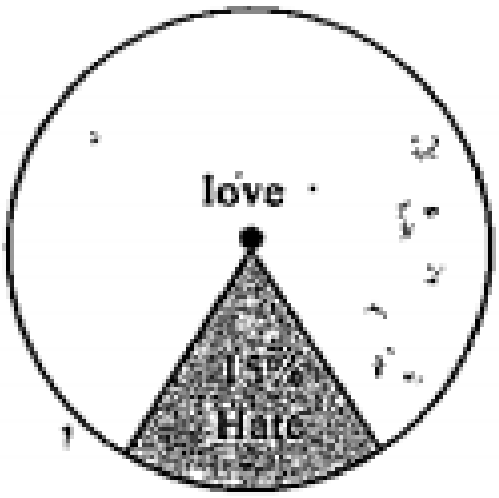
50. Each of the following pie charts gives you a different piece of information about your class. Find the fraction of the circle representing each of these information.

(iii)



Love/Hate Mathematics

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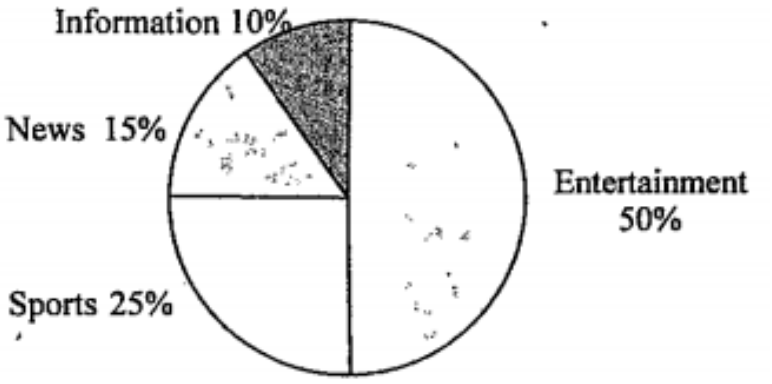
51. Answer the following questions based on the pie chart given.

Which two types of programmes have number of viewers equal to those watching sports channels?



Viewers watching different types of channels on TV

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52. Draw a pie chart of the data given below.

The times spent by a child during a day.

Sleep	-	8 hours
School	-	6 hours
Home work	-	4 hours
Play	-	4 hours
Others	-	2 hours

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53. Which form of graph would be appropriate to display the following data?

Year	2001	2002	2003	2004	2005	2006
Production (in lakh tons)	60	50	70	55	80	85

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54. Which form of graph would be appropriate to display the following data.

The daily income of a group of a factory

workers.

Daily Income (in Rupees)	Number of workers (in a factory)
75-100	45
100-125	35
125-150	55
150-175	30
175-200	50
200-225	125
225-250	140
Total	480

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55. Try these

If you try to start a scooter, the possible outcomes?

Watch Video Solution

56. Try these

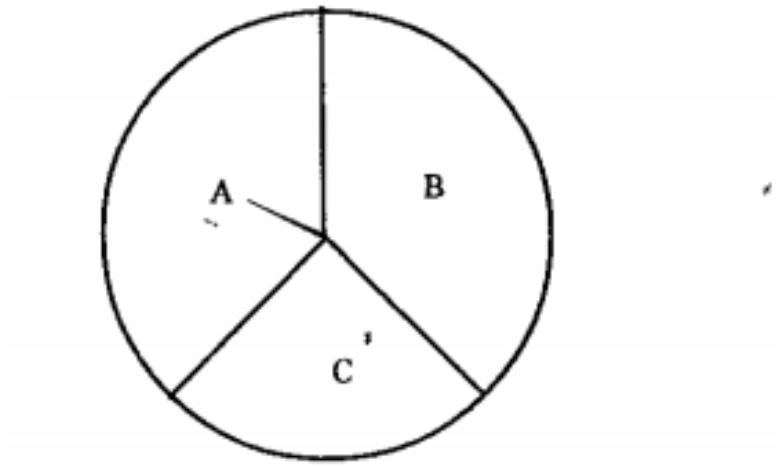
When a die is thrown, what are the six possible outcomes?

 Watch Video Solution

57. Try these

When you spin the wheel show, what are the

possible outcomes? List them.



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58. You have a Basket with five identical balls of different colours and you are to pull out (draw) a ball without looking at it, list the outcomes you would get.

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59. In throwing a die:

Does the first player have a greater chance of getting a six?

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60. In throwing a die:

Would the player who played after first player have a lesser chance of getting a six?

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61. In throwing a die:

Suppose the second player got a six, Does it mean that the third player would not have a chance of getting a six?

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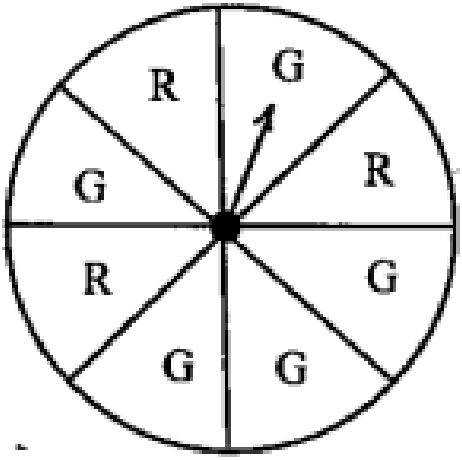
62. Suppose you spin the wheel

List the number fo outcomes of getting a green sector and not getting a green sector

on this wheel.



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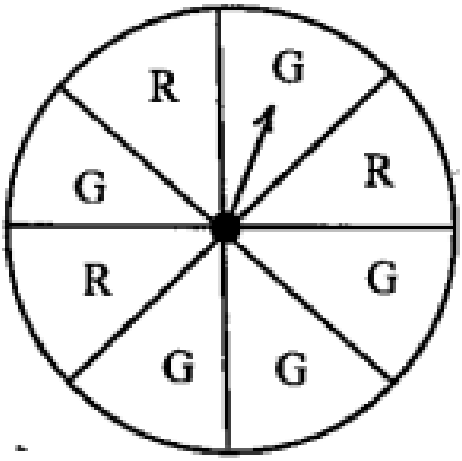
63. Suppose you spin the wheel

Find the probability of getting a green sector.



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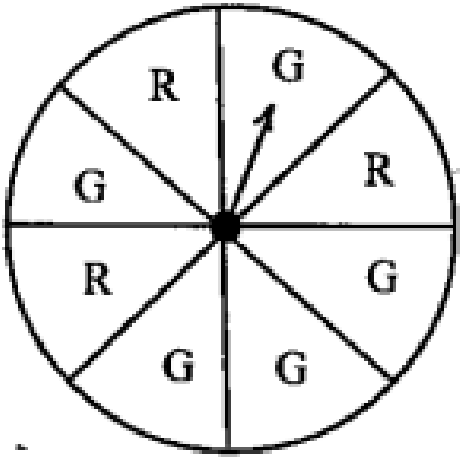
64. Suppose you spin the wheel

Find the probability of not getting a green

sector.



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