MATHEMATICS

- If the mean of n observations is 12 and the sum of the observations is 132, then find the value of n@9@10@11@12@0010
- 2 The range of the data 14, 15, 18, 25, 11, 40, 36, 30 is: @29@27@24@26@1000
- 3 The median of 5, 7, 9, 10, 11 is:@7@9@11@10@0100
- 4 The mean of the data 15, 20, 20, 16, 22, 17, 23, 18, 24, 25, is:@26@22@20@18@0010
- 5 If the mode of 22, 21, 23, 24, 21, 20, 23, 26, x and 26 is 23, then x is:@20@21@23@24@0010
- 6 If the mean of 5, 7, x, 10, 5 and 7 is 7, then find the value of x.@6@7@8@9@0010
- 7 The mean of p, q and r is same as the mean of q, 2r and s. Then which of the following is correct? @p = q = r@q = r = s@q = r@p = r + s@0001
- The mean weight of 21 students is 21 kg. If a student weighing 21 kg is removed from the group, the what is the mean weight of the remaining students?@20 kg@21 kg@19 kg@None of these@0100
- Find the area of the shaded part of the given figure, if the radius of the larger circle is 21 cm, and diameter of the both smaller circles is 14 cm. @1078 cm²@1098 cm²@1100 cm²@908 cm²@1000
- A sum of M12, 500 amounts to M15, 500 in 4 years at the rate of simple interest. What is the rate of interest? $@5\%@6\%@7\%@8\% \Rightarrow 3000 = \Rightarrow R = 6\%@0100$
- 11 The range of the data 15, 18, 17, 16, 14, x, 12, 10, 9, 15 is 9. Which of the following is true about x? $@x > 18@x < 9@9 \le x \le 18@N$ one of these@0010
- There are 7 observations in the data and their mean is 11. If each observation is multiplied by 2, then find the new mean.@11@13@22@None of these@0010
- From a series of 50 observations, an observation with the value of 45 is dropped, but the mean remains the same. What was the mean of 50 observations?@ 50@49@45@40@0010
- A bastman scores 80 runs in his 6th inning and thus increases his average by 5. What is his average after 6th inning?@66@55@56@65@0100
- Find the altitude of a triangle whose base is 40 cm and area is 240 cm²?@8 cm@12 cm@14 cm@10 cm@0100
- Find the cost of painting a wall with dimension 25 m by 9 m at the rate of M120 per square metre.@M25000@M24550@M29450@M27000@0001
- Priya earned M25000 in a month. The given graph shows the amount of money saved by Priya in five months. What was the amount of money she spent in five months?@M97000@M100000@M107000@M117000@0010
- The mean of three numbers is 40. All the three numbers are different natural numbers. If lowest is 19, what could be highest possible number of remaining two numbers?

 @ 81@40@100@71@0010
- The given bar graph shows heights of selected lakes. Find the difference in elevation for Lake E and Lake C@420 m@604 m@504 m@692 m@0100
- Find the mode from the following data: @ 32@37@30@34@0100

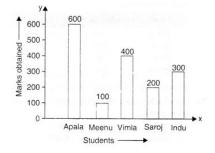
- In the frequency distribution of discrete data given below, the frequency p against value 3 is missing. If the mean is 2.5, then the missing frequency p will be@0@10@30@4@0001
- 26 If the mean of 4, x and y is 6, then find the mean of x, y and 10@10@12@3@8@0001
- 35. A batsman scored the following number of runs in six innings: 35, 30, 45, 65, 39, 20 The mean runs scored by him in an inning is@39@38@37@40@1000
- 36. The mean of the numbers 10,20, 30 and 40 is@ 20@25@30@50@0100
- The range of the weights (in kg) of a students of a class given below is:49, 60, 47, 50, 47, 59, 58, 45, 53@10@15@20@2@0100
- The marks of 11 students of a class are as given below:78, 11, 99, 63, 94, 6, 78, 36, 30, 55, 22The range of marks is@ 90@91@92@93@0001
- The rainfall (in mm) in a city on 7 days of a certain week was recorded as follows:

Day	Rainfall (in mm)		
Monday	0.0		
Tuesday	0.0		
Wednesday	1.0		
Thursday	2.0		
Friday	3.0		
Saturday	5.0		
Sunday	4.0		

On how many days was the rainfall less than 6 mm?

@0@3@6@7@0001

- 40. The mode of the distribution 3, 5, 7, 4, 2, 1, 4, 3, 4 is@7@4@3@1@0100
- 41. The marks of some students are as given below: 30, 31, 32, 32, 33, 32, 34, 35, 30, 31, 33, 32Find the mode of their marks.@ 30@31@32@33@0010
- The median of the distribution 2, 3, 4, 7, 5, 1, 6 is@ 1@2@3@4@0001
- 43. The median of the data 20, 30, 40, 10, 15, 25, 35 is@ 20@25@30@40@0100
- 44. Which of the following statements is true?@ The mode is always one of the numbers in a data@The mean is always one of the numbers in a data@Mean< Mode in a data@Median< Mode in a data@1000
- 45. A coin is tossed. What is the probability of getting head?@0@1(C)1/2@2@0010
- 46. A coin is tossed. What is the probability of getting tail?@1@1/2@2@0@0100
- 47. A die is thrown. What is the probability of getting 1?@ 0@1(C)1/2 (D)1/6@0001
- 48. A die is thrown. What is the probability of getting 6?@0@1/6@1/2@1@0100



Read the following bar graph and answer the following related questions

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Who got the maximum marks?

@Apala@Meenu@Saroj@Indu@1000

- Read the following bar graph and answer the following related questions
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br />Who got the maximum marks?

 @Apala@Meenu@Vimla@Indu@0100
- 51. Read the following bar graph and answer the following related questions

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 The difference between maximum and minimum mark is@100@200@400@500@0001
- 52. Read the following bar graph and answer the following related questions

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 >The ratio between the marks obtained by Saroj and Vimla is@1:

 2@2: 3@3: 4@1:6@1000
- 53. Read the following bar graph and answer the following related questions

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 br />How many girls have got marks more than 100?@

 2@3@4@1@0010
- Read the following bar graph and answer the following related questions

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 Who has got 400 marks? @Vimla@Saroj@Indu@Apala@1000
- Sead the following bar graph and answer the following related questions br/>img src="49_Q.gif" > br/>The difference between the marks obtained by Vimla and Saroj is how many times the difference between the marks obtained by Meenu and Saroj?@ 2@3@4@6@1000
- Read the following bar graph and answer the following related questions

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 How many girls have got marks less than 600?@1@2@3@4@0001

Years	Mathematics	English	
2005	200	100	
2006	300	250	
2007	400	200	
2008	500	500	

- Sale of Mathematics and English books in the year 2005, 2006, 2007 and 2008 are given below:

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 \shankar /> Answer the following related question</br/>
 \shankar In which year is the difference in the salemaximum?@2005@2006@2007@2008@0010
- 59. Sale of Mathematics and English books in the year 2005, 2006, 2007 and 2008 are given below:

 simg src="57_Q.gif" >
Answer the following related question</br/>
 The ratio of sales in the year 2005 is@2: 1@3: 1@4: 1@2: 3@1000
- Sale of Mathematics and English books in the year 2005, 2006, 2007 and 2008 are given below:

 '>
Answer the following related question</br/>
 The rise in the sale of Mathematics books from 2005 to 2008 is@

 100@200@300@400@:0010

61. Sale of Mathematics and English books in the year 2005, 2006, 2007 and 2008 are given below:

'>

'>Answer the following related question</br/>
The fall in the sale of English books from 2006 to 2007 is@ 50@100@150@200@1000

Class	Number of children		
6	400		
7	350		
8	320		
9	280		
10	225		
11	200		

- Number of children in six different classes are given below:
br />
>br />Answer the following related questions
>br />In which class is the number of children maximum?@6@7@8@9@1000
- 64. Number of children in six different classes are given below:

 | Str |
- Number of children in six different classes are given below:

 | Str | Str
- Number of children in six different classes are given below:

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 >br />Answer the following related questions

 of children more than 100?@ 6@4@3@1@1000
- Number of children in six different classes are given below:

 | Ser | Ser
- The difference between the upper and lower limit is called@group@class size@class interval@class mark@0100
- A process which results in some well defined outcome is known as@ outcome@event@experiment@frequency@0010
- 71 What is the median of the data 46,64,87, 41,58,77,35,90,55,33,92?@ 87@77@58 @60.2 @0010
- 72 In a bar chart, a bar of length 4 cm is drawn. If 1 cm = 1.5 l, what will 4 cm be? @ 3 1@6 1@5 1@9 1@0100
- The mean weight of 100 students in a class is 46 kg. The mean weight of boys is 50 and of girls is 40 kg. Therefore, the number of boys is:@50@60@70@65@0100

- 74 The probability of an experiment cannot be greater than: @ 0@0.5@1@2@0010The maximum probability an event can have is 100/100 = 1/1 = 1
- 75 The number of times an observation occurs in a data is called its@ Range@Raw data@Interval@Frequency@0001
- Suppose in a game of ludo, the player requires 1, 3, 5 and 6 to be safe. What is the probability of being unsafe? @4/6, @3/6, @2/6, @1@0010
- When a coin is thrown, total number of possible outcomes is _____.@ 5 @2@6 @None of these@@2
- Represent the frequency: 29 in Tally Marks.
 - (a) M M M III
- (P) M M M M M III
- (c) THI JHI IIII
- (母) 医黑黑黑黑

@0100

- 79 There are 2 red, 3 blue and 5 black balls in a bag. A ball is drawn from the bag without looking in to the bag. What is the probability of getting a non-blue ball? @3/5@7/10@2/5@None of these@0100
- Hari is playing snakes and ladders. He wants a six on first dice and a four on other so as to win. What is the probability for him to win if 2nd dice already has a 4?@6/6,@1/6 @4/6, (D)1/2@0100
- 81 The mean of 6, y, 7, x and 14 is 8. Which of the following is true?@x+y = $13@x-y = 13@2x+3y = 13@x^2+y = 15@1000$
- There are 2 red, 3 blue and 5 black balls in a bag. A ball is drawn from the bag without looking in to the bag. What is the probability of getting a non-red ball?@4/5, @2/5, @3/5,@None of these@1000
- 83 If 1 cm = 15 students, what will be the length of line for 90 students?@4 cm@6 cm@6 students@9 cm@0100
- The mean of five numbers is 27. If one of the numbers is excluded, the mean gets reduced by 2. What is the excluded number?@35@27@25@40@1000
- Find the mean if the sum of 18 observations is 90.@5@4@6@9@1000
- The arithmetic mean of five given numbers is 85. What is their sum?@ 425@85@A number between 85 and 425.@A number greater than 500.@1000
- What is the probability of getting a sum of 13 when 2 dice are rolled ?@13/12@1/12,@4/12,@none of these@0001
- Two dice are thrown, find and number of outcomes@12@6@36@None of these@0010
- 89 If we represent the following in Tally Marks:

III M M M M M

Marks: What would it mean in whole numbers?

@ 24@22@28@23@0001

- There are 2 red, 3 blue and 5 black balls in a bag. A ball is drawn from the bag without looking in to the bag. What is the probability of getting a black ball?

 @2/5,@3/5, @1/2, @None of these@1/2@0010
- How many possible outcomes can we get if we toss a coin and throw a dice respectively? @ 6, 2@2, 6@1, 3@3, 1@@2, 6@0100

Favourite Sport	Cricket	Basket Ball	Swimming	Hockey	Athletics
Watching	1240	470	510	430	250
Participating	620	320	320	250	105

- A coin has 3 sides and hence 2 outcomes and a dice has 6 faces, so 6 outcomes.

 Questions 25-28 are based on the given table:

 | '>

 | '>Find the Median of people watching sports@ 1240@470@510@430@0100
- A coin has 3 sides and hence 2 outcomes and a dice has 6 faces, so 6 outcomes. Questions 25-28 are based on the given table:

 Simplify | S
- A coin has 3 sides and hence 2 outcomes and a dice has 6 faces, so 6 outcomes.

 Questions 25-28 are based on the given table:

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 Find Mean of people participating in sports@320@330@323@340@0010
- In the class-interval 70-80, 80 is the@lower limit@upper limit@frequency@range @0100
- 97 Mode of the observations 1, 2, 2, 4, 4, 5, 6, 7, 7, 7, 8, 8, 9 is:@2@4@7@8@0010
- The heights of six mountains are 8200 m, 6000 m, 8600 m, 7500 m, 8800 m and 6500 m. Based on this information, answer the questions given. Rakesh and Sanjay planned to go trekking on any of these mountains. They wrote the heights on chits of paper, shuffled them and picked one. What is the probability that the height picked is the maximum? @1/3,@2/3,@1/6,@1/4,@0010
- 99. The median of 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11is: @5@6@7@8@0100
- 100. A dice thrown at random. What is the probability of getting of 2?@1/6, @2/6,@3/6,@4/6, @0010