



MATHS

BOOKS - SWAN PUBLICATION

DATA HANDLING

Exercise 3 1

1. Find the mean of the following data :

3,5,7,9,11,13,15



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2. Find the mean of the following data :

40,30,30,0,26,60



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3. Find the mean of the first five whole numbers.



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4. A batsman scored the following number of runs in six innings : 36,30,51,46,50,55

Calculate the mean runs scored by him in an inning.



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5. The ages in years of 8 teachers of a school are : 32,41,54,35,26,33,38,40

What is the age of the oldest teacher and that of the youngest teacher ?





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6. The ages in years of 8 teachers of a school are : 32,41,54,35,26,33,38,40

What is the range of the ages of the teachers ?



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7. The ages in years of 10 teachers of a school are : 32,41,54,35,26,23,33,38,42

What is the mean age of these teachers ?

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8. The rain fall (in mm) in a city on 7 days of a certain week was recorded as follows

Day	Mon	Tue	Wed	Thurs	Fri	Sat	Sun
Rain fall (in mm)	0.01	12.2	2.1	0.0	20.5	5.5	1.0

Find the range of the rain fall In the above data.

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9. The rain fall (in mm) in a city on 7 days of a certain week was recorded as follows

Day	Mon	Tue	Wed	Thurs	Fri	Sat	Sun
Rain fall (in mm)	0.01	12.2	2.1	0.0	20.5	5.5	1.0

Find the mean rainfall for the week.



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10. The rain fall (in mm) in a city on 7 days of a certain week was recorded as follows

Day	Mon	Tue	Wed	Thurs	Fri	Sat	Sun
Rain fall (in mm)	0.01	12.2	2.1	0.0	20.5	5.5	1.0

How many days had the rainfall less than the mean rainfall ?



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Exercise 3 2

1. Find the median of the following data :

3,1,5,6,3,4,5



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2. Find the mode of the following numbers :

2,2,2,3,4,5,5,6,6,8



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3. The scores in mathematics test (out of 25) of 15 students is as follows:

19, 25, 23, 20, 9, 20, 15, 10, 5, 16, 25, 20, 24, 12, 20

Find the mode and median of this data. Are they same?



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4. The weights (in kg.) of 15 students of a class are:

38, 42, 35, 37, 45, 50, 32, 43, 43, 40, 36, 38, 43, 38, 47

Find the mode and median of this data.



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5. The weights (in kg.) of 15 students of a class are:

38, 42, 35, 37, 45, 50, 32, 43, 43, 40, 36, 38, 43, 38,

Is there more than one mode?



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6. Find the mode and median of the data: 13, 16, 12, 14, 19, 12, 14, 13, 14



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7. Find the mode of the following data :

12, 14, 12, 16, 15, 13, 14, 18, 19, 12, 14, 15, 16, 15, 16, 15, 16, 16, 15, 17, 13,

16,16,15,15,13,15,17,15,14,15,13,15,14



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Exercise 3 2 Multiple Choice Questions

1. The mode of the data : 3,5,1,2,0,2,3,5,0,2,1,6 is

A. 6

B. 3

C. 2

D. 1

Answer:



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2. A cricketer scored 38,79,25,52,0,8,100 runs in seven innings, the range of the runs scored is :

A. 100

B. 92

C. 52

D. 38

Answer:



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3. Which of the following is not a central tendency of a data

A. Mean

B. Median

C. Mode

D. Range

Answer:



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4. The mean of 3,1,5,7, and 9 is

A. 6

B. 4

C. 5

D. 0

Answer:



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Exercise 3 3

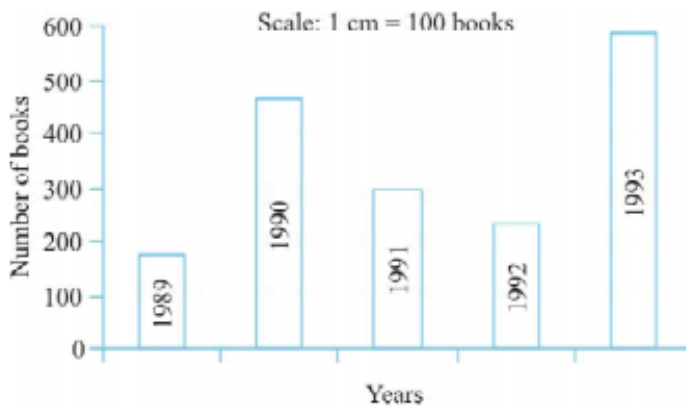
1. Following data gives total marks (out of 600) obtained by six students of a particular class. Represent the data on a bar graph.

Students :	Ajay	Bali	Dipti	Faiyaz	Geetika	Hari
Marks obtained :	450	500	300	360	400	540



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2. Read the bar graph which shows the number of books sold by a bookstore during five consecutive years and answer the following questions:



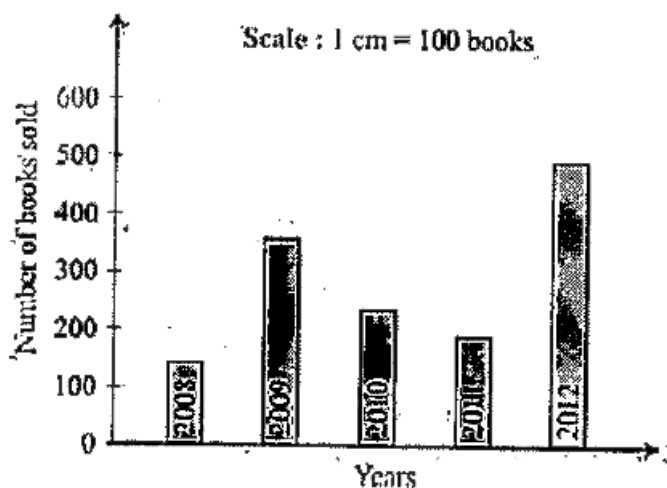
About how many books were sold in 1989?
1990? 1992?



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3. The following bar graph shows the number of books sold by a bookstore during five consecutive years. Read the bar graph and answer the following questions.

In which year about 475 books ? And in which year were about 25 books sold ?



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4. Two hundred students of 6th and 7th class were asked to name their favourite so as to decide upon what should be the colour of their school building. The results are shown in the table :

Favourite Colour :	Red	Green	Blue	Yellow	Orange
Number of Students :	43	19	55	49	34

Which is the most preferred colour ?



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5. Two hundred students of 6th and 7th class were asked to name their favourite so as to decide upon what should be the colour of their school building. The results are shown in the table :

Favourite Colour :	Red	Green	Blue	Yellow	Orange
Number of Students :	43	19	55	49	34

Represent the data on a graph.

Which is the least preferred colour ?



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6. Two hundred students of 6th and 7th class were asked to name their favourite so as to decide upon what should be the colour of their school building. The results are shown in the table :

Favourite Colour :	Red	Green	Blue	Yellow	Orange
Number of Students :	43	19	55	49	34

How many colours are there in all ? What are they ?



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7. Consider the following data collected from a survey of a colony :

Favourite Sport	Cricket	Basket Ball	Swimming	Hockey	Athletics
Watching	1240	470	510	430	250
Participating	620	320	320	250	110

Draw a double bar graph choosing an appropriate scale. What do you infer from the bar graph :

Which sports is the most popular ?



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8. Consider the following data collected from a survey of a colony :

Favourite Sport	Cricket	Basket Ball	Swimming	Hockey	Athletics
Watching	1240	470	510	430	250
Participating	620	320	320	250	110

Draw a double bar graph choosing an appropriate scale. What do you infer from the bar graph :

Which is more preferred, watching or participating in sports ?



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9. The following table shows the time (in hours) Spent by a student of class VII in a day.

Activity	School	Sleeping	Playing	Watching television	Studying	Others
Time (in hours)	8	8	1	3	2	2



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Exercise 3 4

1. State whether the following is certain to happen, impossible to happen, may happen.

Two hundred people sit in a Maruti car.



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2. Tell whether the following is certain to happen, impossible, can happen but not certain.

You are older today than yesterday.



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3. Tell whether the following is certain to happen, impossible, can happen but not

certain.

A tossed coin will land heads up.



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4. Tell whether the following is certain to happen, impossible, can happen but not certain.

A die when tossed shall land up with 8 on top.



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5. State whether the following is certain to happen, impossible to happen, may happen.

Tommrrow will be a rainy day



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6. State whether the following is certain to happen, impossible to happen, may happen.

India will win the next test series.



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7. State whether the following is certain to happen, impossible to happen, may happen.

The next traffic light seen will be red.



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8. There are 6 marbles in a box with numbers from 1 to 6 marked on each of them.

What is the probability of drawing a marble with number 5?



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9. There are 6 marbles in a box with numbers 1 to 6 marked on them.

What is the probability of drawing a marble with number 3 ?



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Exercise 3 4 Multiple Choice Questions

1. There are two teams A and B. A coin is flipped to decide which team starts the game.

What is the probability that team A will start ?



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2. A bag contains 3 red and 7 green balls. One ball is drawn at random from the bag. Find the probability of getting (i) a red ball (ii) a green ball.



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3. The probability of an impossible event is

A. -1

B. 0

C. $\frac{1}{4}$

D. $\frac{1}{3}$

Answer: B



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4. The probability of selecting letter G from the word 'GIRL' is

A. 1

B. $\frac{1}{2}$

C. $\frac{1}{4}$

D. $\frac{1}{3}$

Answer: C



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5. When a die is thrown, the probability of getting a number 4 is

A. $\frac{1}{2}$

B. $\frac{1}{3}$

C. $\frac{4}{6}$

D. $\frac{1}{6}$

Answer: D



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6. A bag contains 5 white balls and 10 black balls. The probability of drawing a white ball from the bag is

A. $\frac{5}{10}$

B. $\frac{5}{15}$

C. $\frac{10}{15}$

D. 1

Answer: B



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Other Important Questions Multiple Choice Questions

1. In a set of observations the observation that occurs most often is called :

A. Frequency

B. Median

C. Mean

D. Mode

Answer: D



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2. The mean of first 6 natural numbers is :

A. 5

B. 4.5

C. 3.5

D. 2

Answer: C



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3. Information in the form of numerical figures is called :

A. Tally Bars

B. Frequency

C. Data

D. Mean

Answer: C



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4. Representation of information in the form of symbol or picture is known as:

- A. Bar graph
- B. Pictograph
- C. Fequency table
- D. None of these

Answer: B



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5. Ashish studies for 4 hours, 2 hours and 3 hours respectively on three consecutive days.

What is his average daily study time?

A. 3 hours

B. 4 hours

C. 5 hours

D. 6 hours

Answer: B



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6. The ages in years of 10 teachers of a school are:

32, 41, 28, 54, 35, 26, 23, 33, 38, 40

What is the mean age of these teachers?

A. 32 years

B. 54 years

C. 31 years

D. 33 years

Answer: C



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7. The median of the data 24, 36, 46, 17, 18, 25, 35 is

A. 24

B. 46

C. 35

D. 25

Answer: D



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8. Find the mode and median of the data: 13, 16, 12, 14, 19, 12, 14, 13, 14

A. 12

B. 14

C. 19

D. 13

Answer: B



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9. Which of the statement is true ?

A. The mode is always one of the numbers in a data.

B. The mean is one of the number in a data.

C. The median cannot be one of the numbers in a data.

D. The data 6, 4, 3, 8, 9, 12, 13, 9 has mean 9

Answer: A



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10. Check which of the following can happen but not certain.:

(i) A die when tossed may land up with 8 on top.

(ii) A tossed coin will land heads comes up

(iii) 31 days in the month of January.

(iv) The next traffic light seen will be green.

A. (i),(iii)

B. (ii),(iii)

C. (ii),(iv)

D. (i),(iv)

Answer: C



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11. A bag has 15 red and 30 green balls. A ball is drawn at random from the bag. What is the probability of a red ball?

A. $\frac{1}{2}$

B. $\frac{1}{3}$

C. 1

D. $\frac{1}{4}$

Answer: B



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12. On throwing a die what is the probability of getting number multiple of 2 ?

A. $\frac{1}{2}$

B. 1

C. $\frac{1}{3}$

D. $\frac{1}{4}$

Answer: A



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13. A coin is tossed 30 times. Head occurred 20 times and tail 10 times. What is the probability of getting a head ?

A. 2

B. $\frac{1}{2}$

C. $\frac{2}{3}$

D. $\frac{3}{2}$

Answer: C



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Other Important Questions Fill In Blanks

1.1. Each numerical figure in a data is called an

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2. Average lies the highest and the lowest value of given data



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3. Mean is one of the measure of central tendency as it gives of the given data.



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4. The observation which occurs maximum number of times in the given data is called of the data.



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5. In a bar graph width of all bars and gap between the adjoining bars must be



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6. The set of all possible outcomes in an experiment is



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7. A data arranged in ascending or descending order is called,



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8. Data can be presented visually by, drawn vertically or horizontally.



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Other Important Questions True Or False

1. A table showing the frequency of various observations is called a frequency distribution table. ?



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2. A set of numbers can not have more than one mode.



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3. In a bar graph, the length of the bar depends upon the frequency and the scale chosen.



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4. A double bar graph are those bar graph in which bar graphs drawn besides each other display of same set.



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5. One throwing a coin the possibility outcomes head or tail is not same.



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6. Event that have many possibilities can have probability between 0 and 1.



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7. An experiment is a solution that involves a chance of occurrence of a particular event.



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8. Tally marks are not useful in counting observation.



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