



MATHS

NCERT - NCERT Maths(Hinglish)

DATA HANDLING

Exercise 5.3

1. 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 .(i) getting a number 6?(ii) getting a number less than 6?(iii) getting a number greater than 6?(iv) getting a 1-digit number?



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2. Find the.(a) Probability of the pointer stopping on D in (Question 1-(a))?(b) Probability of getting an ace from a well shuffled deck of 52 playing cards?(c)

Probability of getting a red apple. (See figure below)



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

(i) (a) a prime number (b) not a prime number.

(ii) (a) a number greater than 5 (b) a number not greater than 5.



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5. Find the probabilities of the events When a die is thrown, list the outcomes of an event of getting

(i) (a) a prime number (b) not a prime number.

(ii) (a) a number greater than 5

(b) a number not greater than 5

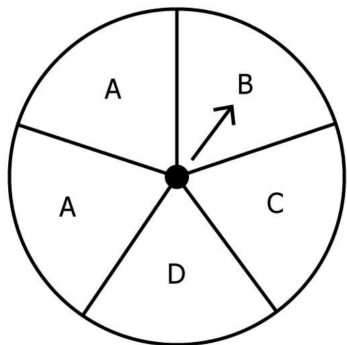


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6. List the outcomes you can see in these experiments.

(a) Spinning a wheel

(b) Tossing two coins together





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Solved Examples

1. A bag has 4 red balls and 2 yellow balls. (The balls are identical in all respects other than colour). A ball is drawn from the bag without looking into the bag. What is probability of getting a red ball? Is it more or less than getting a yellow ball?



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Exercise 5 2

1. The adjoining pie chart gives the marks scored in an examination by a student in Hindi, English, Mathematics, Social Science and Science.

If the total marks obtained by the students were 540, answer the following questions.

(i) In which subject did the student score 105 marks?

(Hint: for 540 marks, the central angle = 360°)

. So, for 105 marks, what is the central angle?)

(*ii*) How many more marks were obtained by the student in Mathematics than in Hindi?

(*iii*) Examine whether the sum of the marks obtained in Social Science and Mathematics is more than that in Science and Hindi (Hint: Just study the central angles).



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2. The number of students in a hostel, speaking different languages is given below.

Display the data in a pie chart.

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



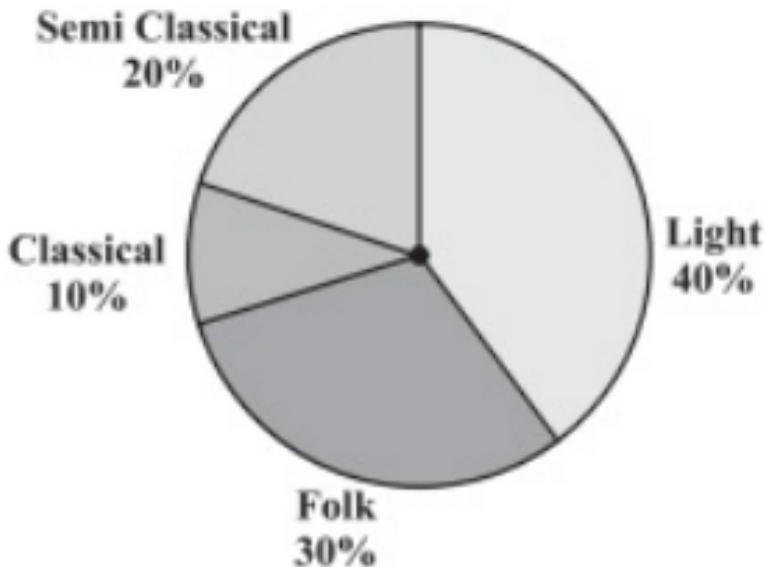
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3. A survey was made to find the type of music that a certain group of young people liked in a city. Adjoining pie chart shows the findings of this survey. From this pie chart answer the following:

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

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

(iii) If a cassette company were to make 1000 CD's, how many of each type would they make?






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

- (i) Which season got the most votes?
- (ii) Find the central angle of each sector.
- (iii) Draw a pie chart to show this

information.

Season		No. of votes
Summer		90
Rainy		120
Winter		150



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5. Draw a pie chart showing the following information. The table shows the colours

preferred by a group of people. Colours
Numbers of people Blue 18, Green 9, Red 6,
Yellow 3, and Total 36



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Exercise 5 1

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

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

(b) The height of competitors in an athletics meet.

(c) The number of cassettes produced by 5 companies.

(d) The number of passengers boarding trains from 7:00 a.m. to 7:00 p.m. at a station.

Give reasons for each.



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2. 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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3. The shoppers who come to a departmental store are marked as: man (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 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 M W W M W G W M G W M M B

G G W

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



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4. The number of hours for which students of a particular class watched television during

holidays is shown through the given graph. Answer the following. (i) For how many hours did the maximum number of students watch TV? (ii) How many students watched TV for less than 4 hours? (iii) How many students spent more than 5 hours in watching TV?



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5. Draw a histogram for the frequency table made for the data in Question 3, and answer

the following questions.(i) Which group has the maximum number of workers?(ii) How many workers earn Rs 850 and more?(iii) How many workers earn less than Rs 850?



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