



MATHS

BOOKS - MBD

DATA HANDLING

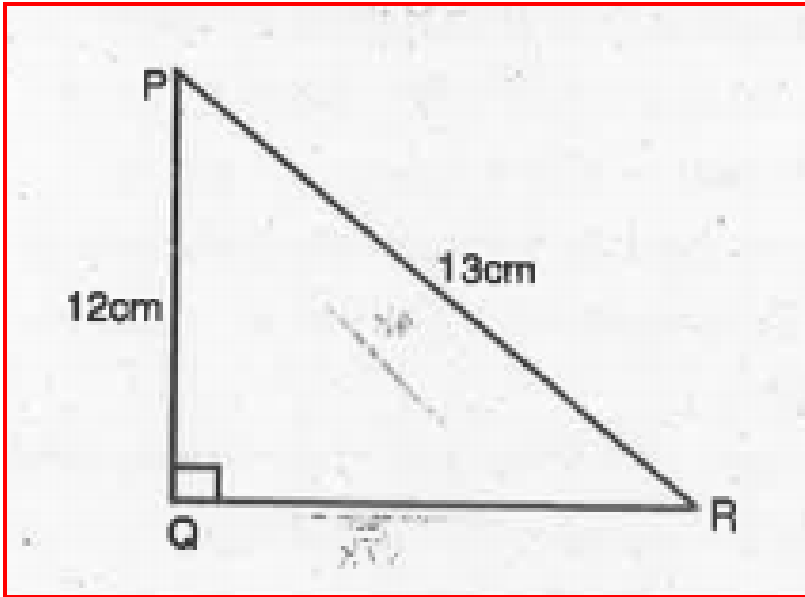
Example

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

Month	July	August	September	October	Nov.	Dec.
Number of watches sold	1000	1500	1500	2000	2500	1500

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2. In fig., find $\tan P - \cot R$.



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3. A group of students were asked to say which animal they would like most to have as a pet. The results are given below: dog, cat, cat, fish, cat, rabbit, dog, cat, rabbit, dog, cat, dog, dog, dog, cat, cow, fish, rabbit, dog, cat, dog, cat, cow. Make a frequency distribution table for the same.



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4. Study the following distribution table and answer the questions 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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5. Study the following distribution table and answer the questions 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 highest frequency?



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6. Study the following distribution table and answer the questions given below: Which class has the lowest frequency?



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7. Study the following distribution table and answer the questions 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

upper limit of the class-interval 250-275?



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8. Study the following distribution table and answer the questions 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 ?



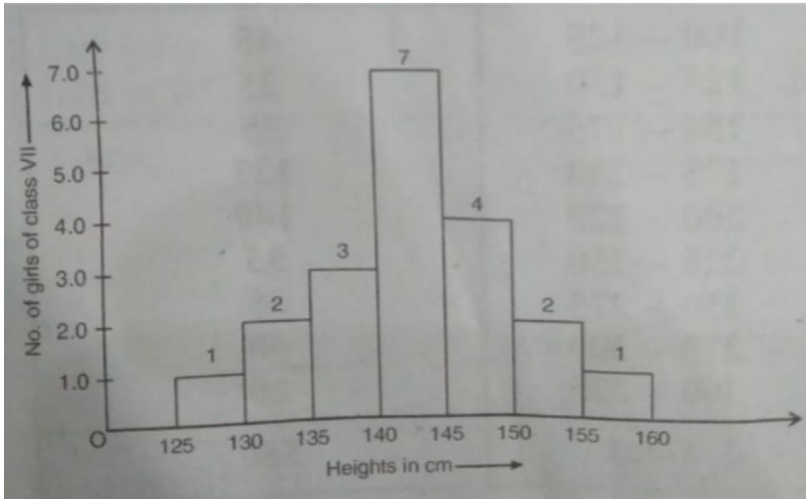
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9. Construct a frequency distribution table for the data on weights (in kg.) of 20 students of a class using intervals 30-35,35-40 and so on.
40,38,33,48,60,53,31,46,34,36,49,41,55,49,65,42,44,47,38,39.



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10. Observe the histogram and answer the questions given below :



What information is being given by the histogram ?



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11. Observe the histogram and answer the questions given below :Which group contains maximum girls ?



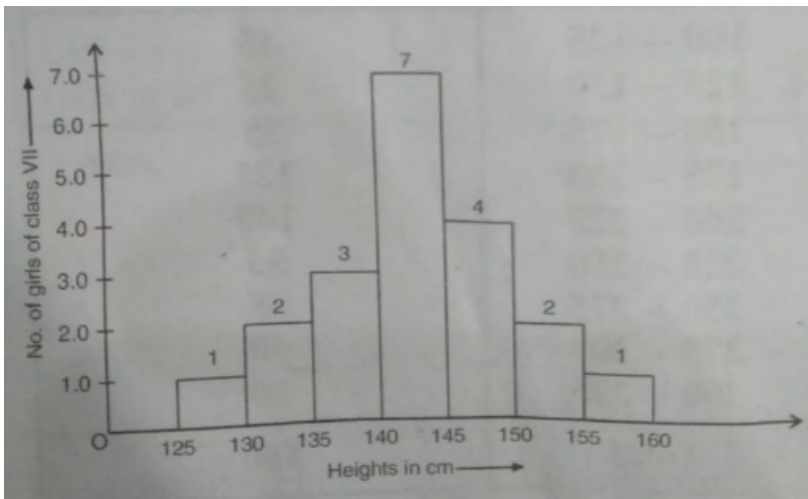
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12. Observe the histogram and answer the questions given below : How many girls have a height of 145 cm and more ?



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13. Observe 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 ?

150 cm and more in Group A

140 cm to less in Group C.



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14. 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. Give reasons for each



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15. The height of competitors in an athletics meet.



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16. For which of these would you use a histogram to show the data : 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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17. People 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.



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18. The weekly wages 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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19. Draw a histogram for the frequency table made for the data in figure ,and answer the following questions.

Which group has the maximum number of workers ?



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20. Draw a histogram for the frequency table made for the data in figure and answer the following questions. How many workers earn Rs 850 and more ?



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21. Draw a histogram for the frequency table made for the data in Question 3,and answer the following questions. How many workers earn Rs 850 and more ?



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

For how many hours did the maximum number of students watch TV?



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23. The number of hours for 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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24. The number of hours for 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 watching TV ?



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25. Answer the following questions based on the pie-chart as given in the figure.

Which type of programmes are viewed the most ?



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



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27. Draw a pie chart of the data given below:

The time spent by a child during a day.

Sleep = 8 hours



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28. Draw a pie chart of the data given below:

The time spent by a child during a day.

School = 6 hours



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29. Draw a pie chart of the data given below:

The time spent by a child during a day.

Home work = 4 hours.



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30. Draw a pie chart of the data given below:

The time spent by a child during a day.

Play = 4 hours



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31. Draw a pie chart of the data given below:

The time spent by a child during a day.

Others = 2 hours.



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

From this pie chart , answer the following :

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



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33. Which types of music is liked by the maximum number of people ?



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



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35. A group of 360 people were asked to vote for their favourite season from the three seasons rainy, winter and summer : Find the central angle of each sector.

QUESTION

Season		No. of votes
Summer		90
Rainy		120
Winter		150

ANSWER






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36. A group of 360 people were asked to vote for their favourite season from the three seasons rainy, winter and summer : Find the central angle of each sector.

QUESTION




Season		No. of votes
Summer		90
Rainy		120
Winter		150

ANSWER

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

Draw a pie chart to show this information.

Season		No. of votes
Summer		90
Rainy		120
Winter		150



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38. Draw a Pie-chart showing the following information. The table shows the colours preferred by a group of people.

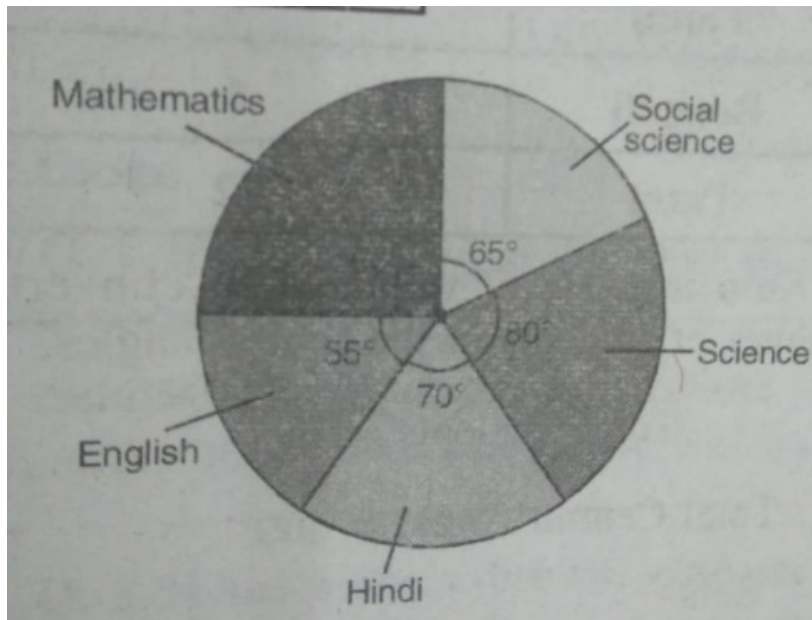
Colours	Number of People
Blue	18
Green	9
Red	6
Yellow	3
Total	36



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39. 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:

In which subject did the student score 105 marks?

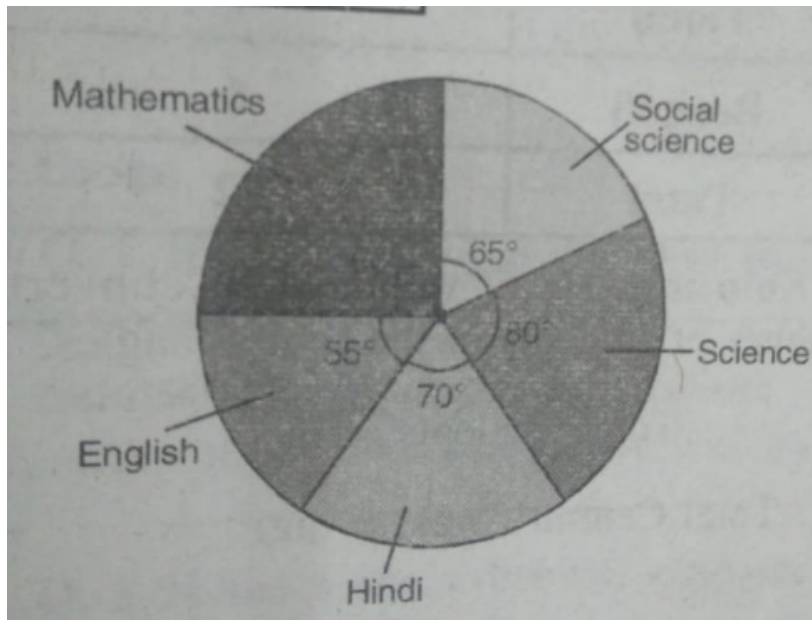


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40. The adjoining pie chart gives the marks scored in an examination by a student in Hindi, English, Mathematics, Social Science and Science. If the total marks obtained by the students were 540, answer the following questions:

How many more marks were obtained by the student in Mathematics

than in Hindi ?



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41. 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:

Examine whether the sum of the marks obtained in Social Science and Mathematics is more than that in Science and Hindi.





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



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43. If you try to start a scooter, what are the possible outcomes ?



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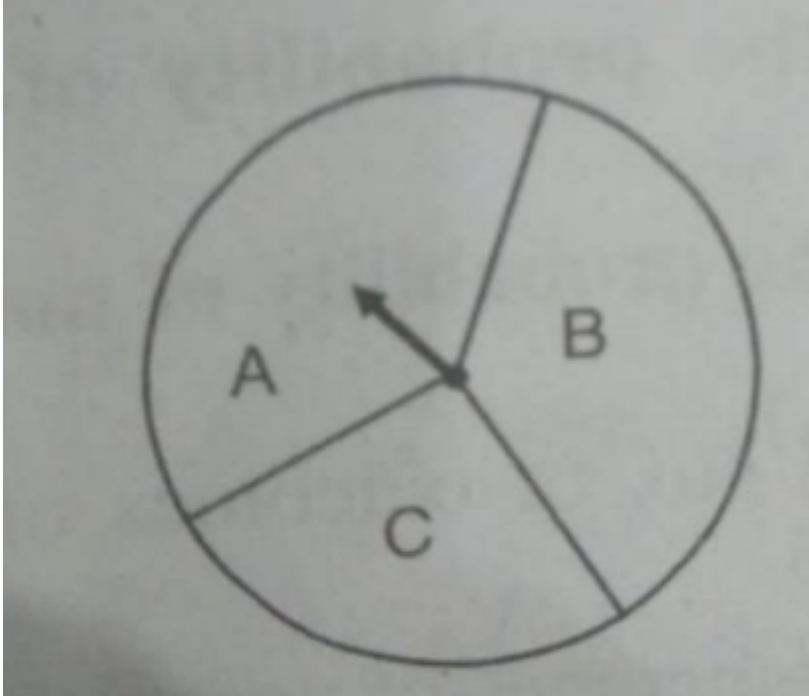
44. When a die is thrown, what are the six possible outcomes?



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45. When you spin the wheel shown ,what are the possible outcomes ?
(Fig.)List them.

(outcome here means the sector at which the pointer stops.)



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46. You have a bag with five identical balls of different colours and you are to pull out (draw) a ball without looking at it,list theoutcomes you

would get (Fig.)



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47. In throwing a die: Does the first player have a greater chance of getting a six?



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48. In throwing a die: Would the player who played at second have a lesser chance of getting a six?



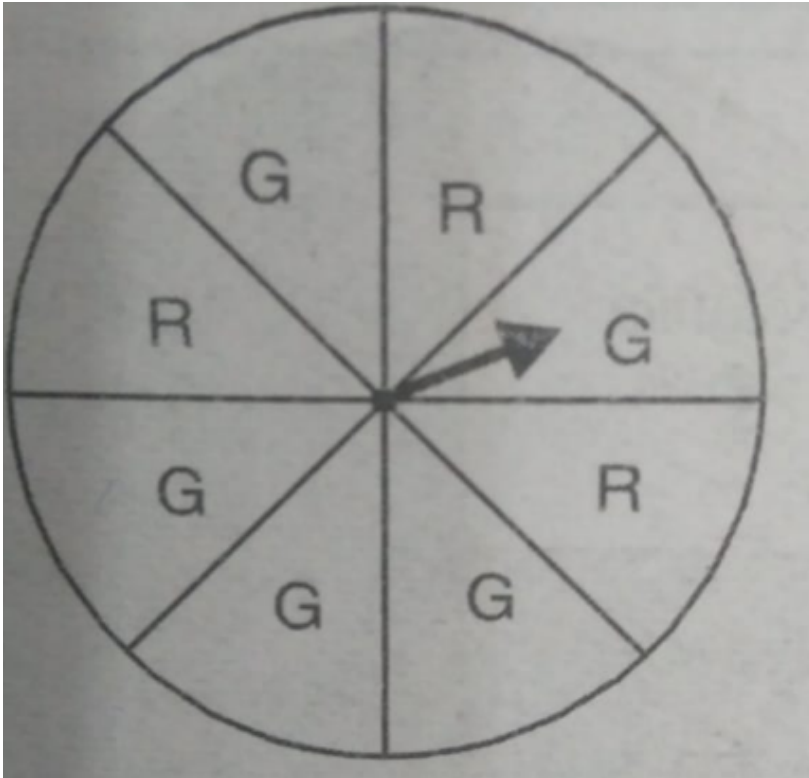
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49. In throwing a die: Suppose the second player got a six. Does it mean that third player would not have a chance of getting a six ?



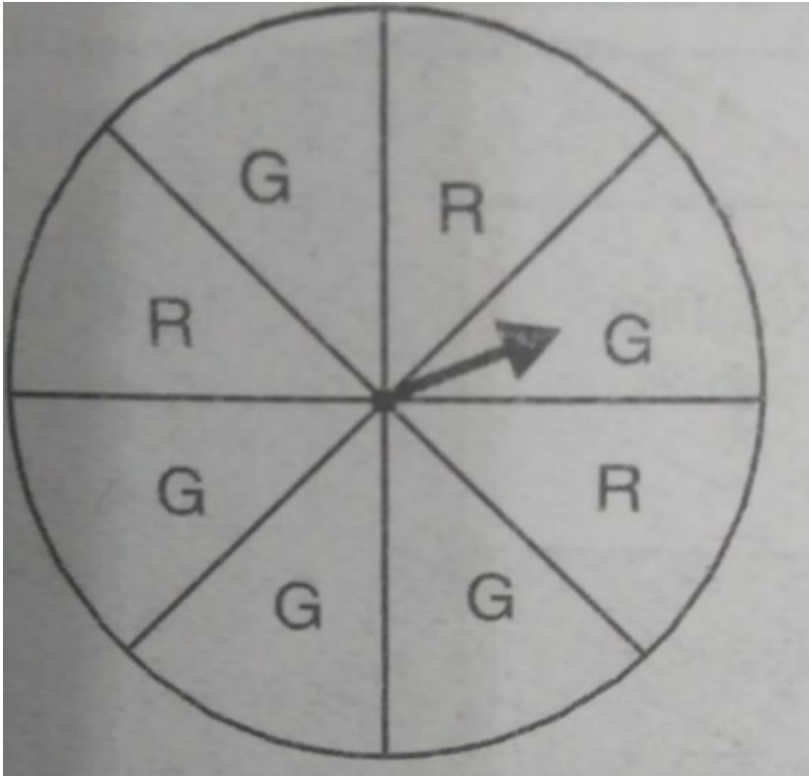
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50. List the number of out comes of getting a green sector and not getting a green sector on this wheel.



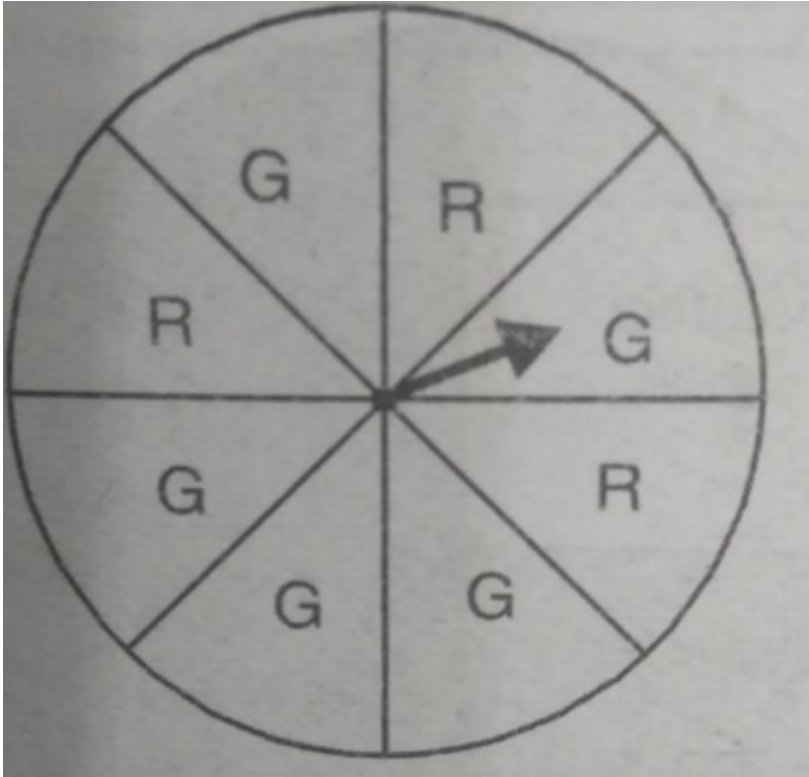
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51. Find the probability of getting a green sector.



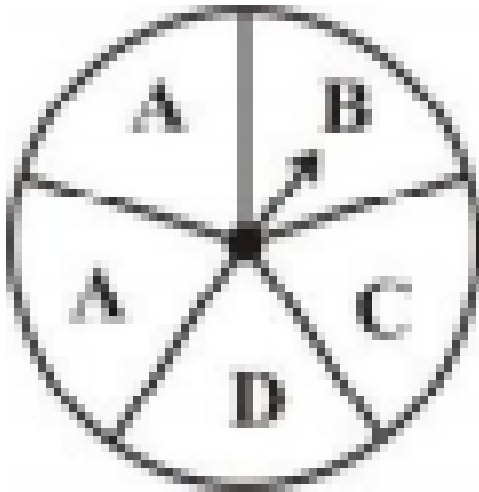
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52. Find the probability of not getting a green sector.



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53. List the outcomes you can see in these experiments: Spinning a wheel



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

tossing two coins together.



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55. When a die is thrown, list the outcomes of an event of getting:
a prime number.
not a prime number.



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56. When a die is thrown, list the outcomes of an event of getting:
: a number greater than 5.
: a number not greater than 5.



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57. Find the:
Probability of the pointer stopping on D.



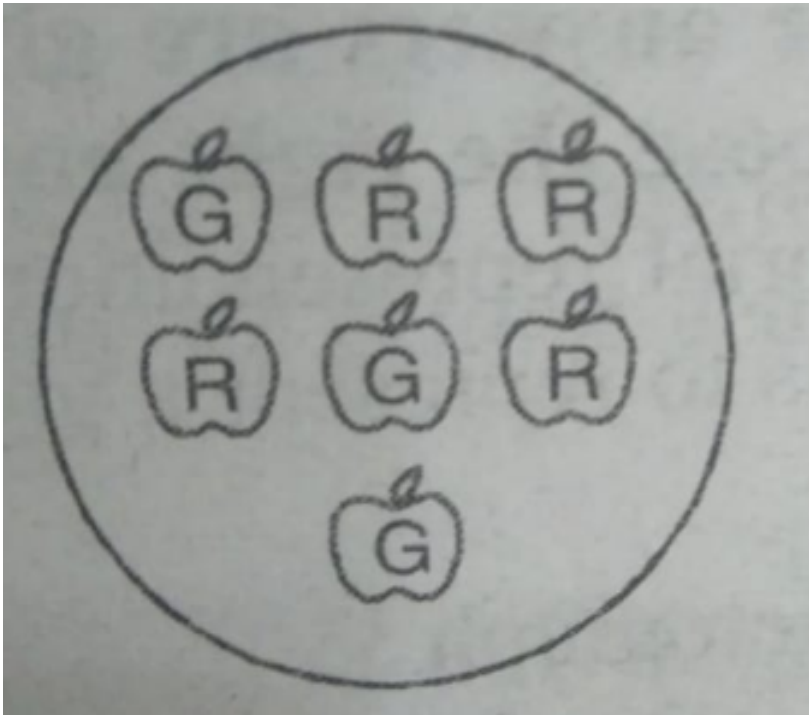
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58. Probability of getting an ace from a well shuffled deck of 52 playing cards.



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59. Probability of getting a red apple from the given figure.(See figure below).



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60. 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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61. 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?



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62. 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?



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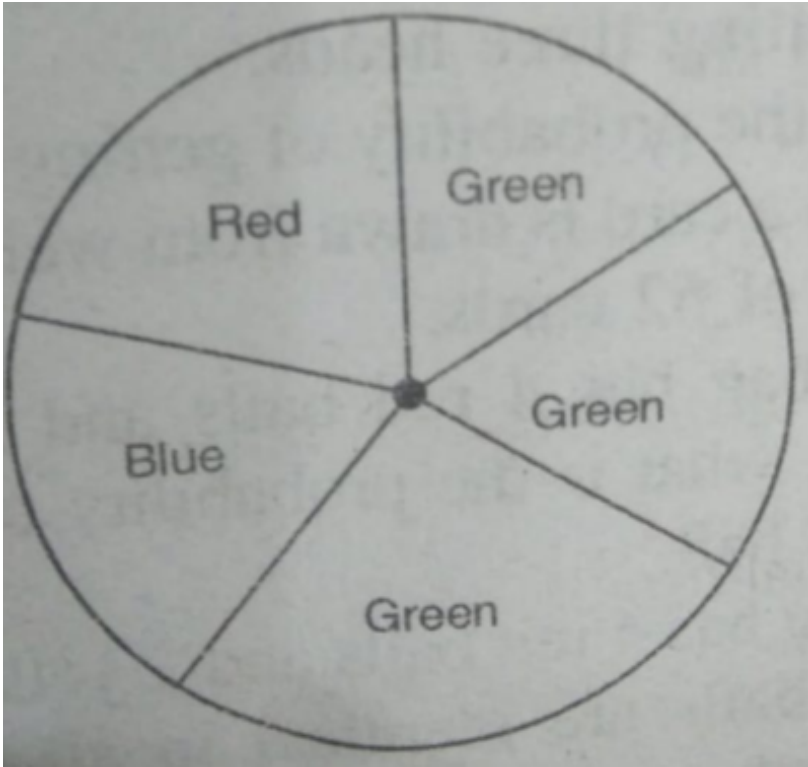
63. Numbers 1 to 10 are written on ten separate slips (one number on one slip), kept in a box and mixed well. One slip is chosen from the box without looking into it. What is the probability of : getting a 1-digit number?



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64. 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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65. Find the probabilities of the events: When a die is thrown, list the outcomes of an event of getting a prime number



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66. A pictorial representation of data using symbols to represent a group of items is called:

- A. Pictograph
- B. Bar graph
- C. Double bargraph
- D. Histogram.

Answer:



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67. The measure or width of a class interval 10-20 is :

- A. 10
- B. 20
- C. 15
- D. 30

Answer:



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68. The lower limit of class interval 20-25 is :

A. 25

B. 20

C. 45

D. 5

Answer:



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69. The upper limit of class interval 20-30 is:

A. 20

B. 50

C. 30

D. 10

Answer:



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70. The circular representation of the data is called :

A. Pie chart

B. Histogram

C. Pictgraph

D. Bar graph

Answer:



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71. The whole angle at the centre of a circle is :

A. 90°

B. 180°

C. 120°

D. 360°

Answer:



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72. When a die is thrown ,then the number of possible outcomes are:

A. Two

B. Three

C. Four

D. Six.

Answer:



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73. A die is thrown once. Find the probability of getting : a prime number

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

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

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

D. None of these.

Answer:



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74. When a die is thrown, then the probability of getting a number greater than 5 is :

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

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

C. $\frac{1}{5}$

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

Answer:



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75. The probability of getting an ace from a well shuffled deck of 52 playing cards.

A. $\frac{1}{52}$

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

C. $\frac{3}{52}$

D. $\frac{1}{13}$

Answer:

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76. 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?

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

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

C. $\frac{1}{10}$

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

Answer:

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77. The probability of getting a number greater than 6 is :

A. 0

B. $\frac{2}{5}$

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

D. $\frac{1}{10}$.

Answer:



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78. The probability of getting a number less than 6 is :

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

B. $\frac{5}{6}$

C. $\frac{1}{10}$

D. $\frac{2}{5}$.

Answer:



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Exercise

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

Type of food per 100 gm.	Biscuits	Paranthas	Puri	Bhature	Samosa	Desi Sweet
WHO Trans fat in gms.	6	7.8	8.6	9.5	5	3.6



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2. The scores (out of 100) obtained by 33 students in a Mathematics test are :

69,48,84,58,84,48,73,83,48,66,58,66,64,71,64,66,69,

66,83,66,69,71,81,71,73,69,66,66,64,58,64,69 and 69.

Prepare a frequency table for the above scores.



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3. In a study of number of road accidents in a city, the observations for the 30 days of April 2003, were

4,3,5,6,4,3,2,5,4,2,6,2,1,2,2,0,5,4,6,1,3,0,5,3,6,1,5,5,2 and 6.

Prepare a frequency distribution table for the above data.



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4. Pulse rate (per minute) of 30 persons were recorded as

61,76,72,73,71,66,78,73,68,81,78,63,72,75,80,68,75,62,71,81,73,60,79,72,73,74,71,64,76

and 71.

Construct a frequency table using class-intervals of equal width, one class interval being (60-65).

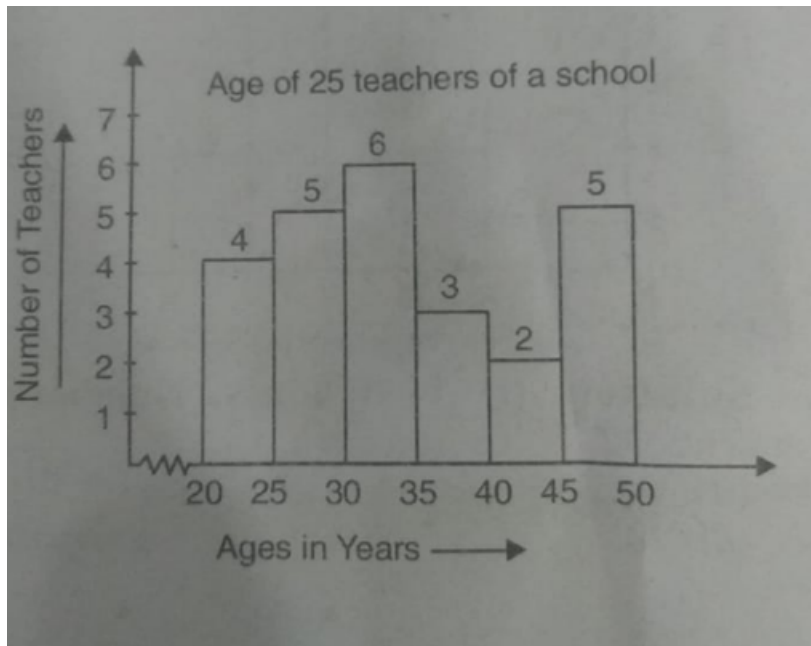


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5. The ages of 25 teachers of a school is shown through the given graph

From the bars of the histogram, answer the following questions.

How many teachers are of age less than 35 years ?

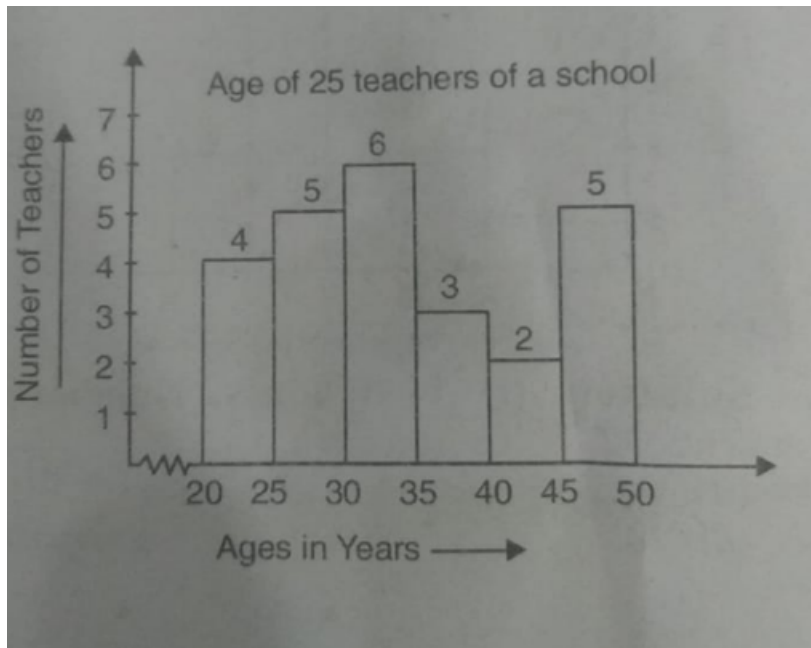


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6. The ages of 25 teachers of a school is shown through the given graph

From the bars of the histogram, answer the following questions.

How many teachers are of age less than 35 years ?



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7. The favourite flavours in ice-creams of the studentts in a school in percentage is given ahead

What is the angle in fractions.

Flavours	Percentage of students
Chocolate	50%
Vanila	25%
Strawberry	25%



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8. On a particular day,the sales (in rupees) of different items of a baker's shop are given below.



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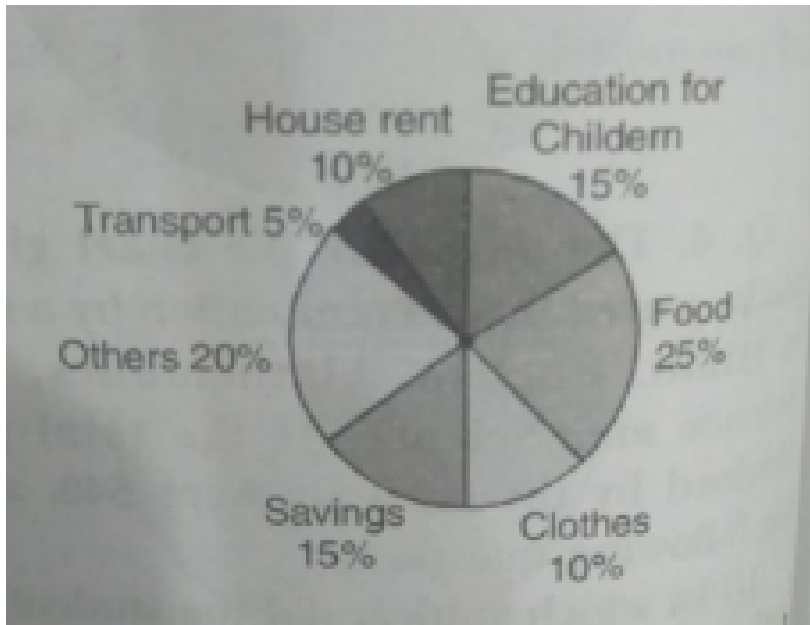
9. Adjoining pie chart gives the expenditure (in percentage) on various items and savings of a family during a month.

On which item the expenditure was mximum ?

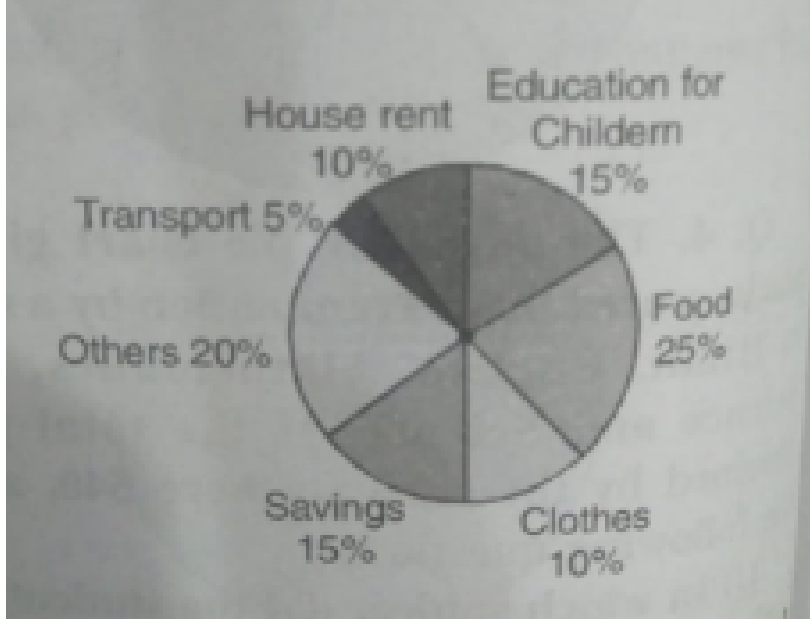


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10. Expenditure on which item is equal to the total savings of the family ?

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11. If the monthly savings of the family is Rs.3,000. What is the monthly expenditure on clothes ?



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12. Two dice are thrown, find the probability of getting sum as 3.



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13. Three coins are tossed. Find the probability of getting : all heads



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14. Find the probability of getting king card when a card is drawn from well shuffled pack of 52 cards.



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15. If a bag has 4 red balls and 2 yellow balls, what is the probability of getting a red ball.



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16. 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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