RAVI MATHS TUITION CENTER , WHATSAPP - 8056206308

Data Handling

8th Standard

Mathematics

1) In a throw of die, the probability of getting the number 8, is

(a) $\frac{1}{2}$ (b) $\frac{5}{12}$ (c) 1 (d) 0

2) The length of a rectangle in a histogram shows the

(a) width of the class (b) lower limit of the class (c) upper limit of the class

(d) frequency of the class

3) A geometric representation showing the relationship between a whole and its parts is a

(a) pie chart (b) bar graph (c) histogram (d) pictograph

4) The range of the data 18, 20, 22, 19, 17,35,44, 46, 38, 40 is

(a) 24 (b) 29 (c) 46 (d) 31

5) Which of the following is not a random experiment?

(a) Tossing a coin (b) Rolling a die (c) Choosing a card from a deck of 52 cards

(d) Throwing a stone from a roof of a building

6) Listed below are the temperature °C for 10 days. -6, -8, 0, 3, 2, 0, 1, 5, 4, 4 What is the range of the data?

(a) 8°C (b) 13°C (c) 10°C (d) 12°C

7) Monthly salary of a person is Rs 45000. The central angle of the sector representing his expenses on food and house rent on a pie chart is 60°. The amount he spends on food and house rent is

(a) Rs 7500 (b) Rs 4500 (c) Rs 2500 (d) Rs 6000

8) A coin is tossed 300 times and head appeared 180 times. The probability of getting a head in this experiment in

(a) $\frac{2}{5}$ (b) $\frac{1}{5}$ (c) $\frac{3}{5}$ (d) $\frac{4}{5}$

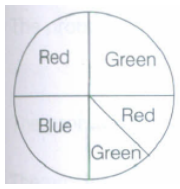
9) A graph showing two sets of data simultaneously is called a

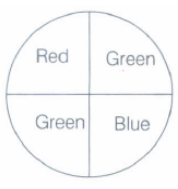
(a) double bar graph (b) pie chart (c) histogram (d) pictograph

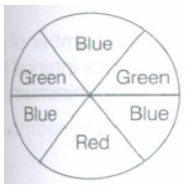
10) Ram puts some buttons on the table. There were 4 blue, 7 red, 3 black and 6 white buttons in all. All of a sudden, a cat jumped on the table and knocked out one button on the floor. What is the probability that the button on the floor is blue?

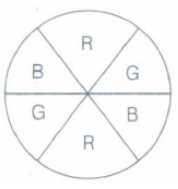
(a) $\frac{7}{20}$ (b) $\frac{3}{5}$ (c) $\frac{1}{5}$ (d) $\frac{1}{4}$

11) Rahul, Varun and Yash are playing a game of spinning a coloured wheel. Rahul wins if spinner lands on red. Varun wins, if spinner lands on blue and Yash wins, if it lands on green. Which of the following spinner should be used to make the game fair?

(a) 

(b) 

(c) 

(d) 

12) A coin is tossed 12 times and the outcomes are observed as shown below:

The chance of occurrence of head is

(a) $\frac{1}{2}$ (b) $\frac{5}{12}$ (c) $\frac{7}{12}$ (d) $\frac{5}{7}$

13) The range of the data: 6, 14,20, 16,6,5,4, 18,25, 15 and 5 is

(a) 4 (b) 21 (c) 25 (d) 20

14) The class-mark of the class 20-30 is:

(a) 20 (b) 30 (c) 25 (d) 10

15) The difference between the highest and the lowest values of observations in a data is called:

(a) mean of the data (b) range of the data (c) total frequency of data

(d) sum of the observations

16) In the interval 35 - 45, 45 is called

(a) upper limit (b) lower limit (c) range (d) ferquency

17) The number of times a particular observation occurs in a given data is called

(a) its frequency (b) its range (c) its mean (d) none of there

18) In histogram which of the following is represented by heights of the rectangles?

(a) frequency (b) class intervals (c) clan size (d) range

19) Tally marks are used to find which of the following

(a) frequency (b) lower limits (c) upper limits (d) clan marks.

20) Which of the following is the probability of an impossible event?

(a) 0 (b) 1 (c) between 0 and 1 (d) none of these

21) Which of the following is the probability of a sure event?

(a) 0 (b) 1 (c) between 0 and 1 (d) none of these

22) A coin is tossed. Which of the following is the probability of getting head or tail?

(a) 0 (b) 1 (c) 1/2 (d) none of these

23) A coin tossed once; what is the probability of getting a head?

(a) 1 (b) 2 (c) 1/2 (d) 0

24) in the interval (0-10), 10 is called the

(a) Lower limit (b) upper limit (c) range (d) frequency

25) Tally marks are used to represent

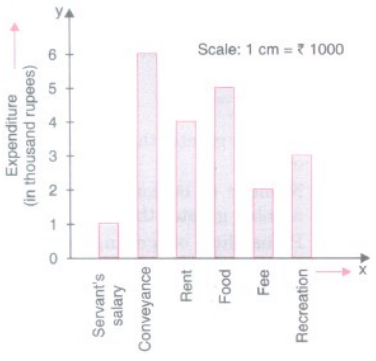
(a) Lower limits (b) upper limits (c) range (d) frequency

26) The mid-value of the class interval is called class mark and it is equal to

(a) upper limit / 2 (b) Lower limit / 2 (c) upper limit + lower limit / 2

(d) upper limit - lower limit / 2

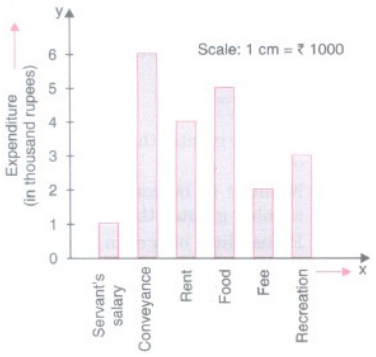
27) Observe the following bar graph carefully and answer the following question:



On which item has the maximum expenditure been done?

(a) Conveyance (b) Rent (c) Fee (d) Servant's salary.

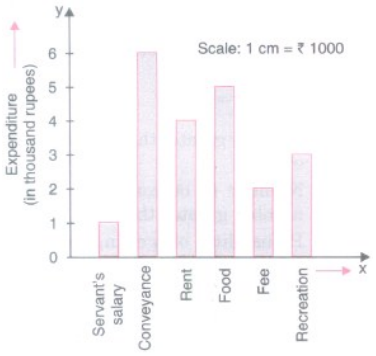
28) Observe the following bar graph carefully and answer the following question:



On which item has the minimum expenditure been done?

(a) Servant's salary (b) Food (c) Rent (d) Conveyance

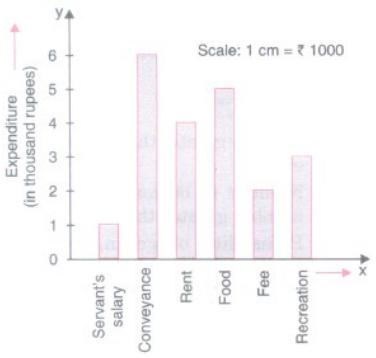
29) Observe the following bar graph carefully and answer the following question:



What is the expenditure done on food?

(a) Rs 1000 (b) Rs 2000 (c) Rs 3000 (d) Rs 5000

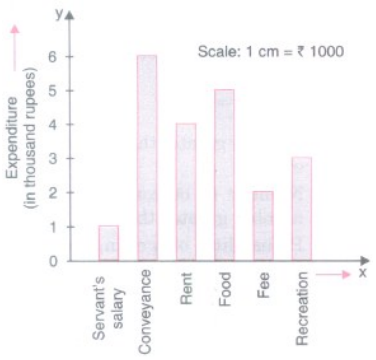
30) Observe the following bar graph carefully and answer the following question:



What is the difference of expenditures done on conveyance and rent ?

(a) Rs 1000 (b) Rs 2000 (c) Rs 3000 (d) Rs 4000

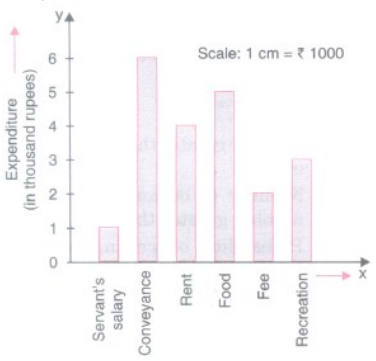
31) Observe the following bar graph carefully and answer the following question:



Rs 5000 is the expenditure done on

(a) rent (b) food (c) fee (d) recreation

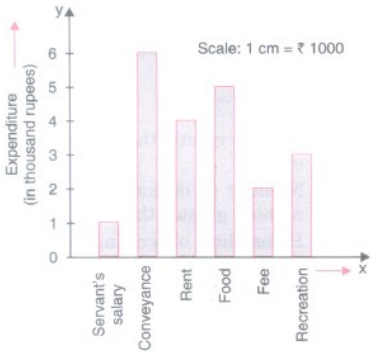
32) Observe the following bar graph carefully and answer the following question:



Rs 6000 is the expenditure done on

(a) fee (b) rent (c) conveyance (d) food

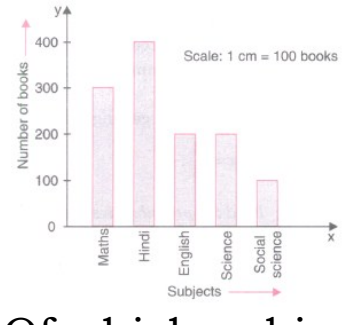
33) Observe the following bar graph carefully and answer the following question:



How much expenditure has been done in all?

(a) Rs 21000 (b) Rs 18000 (c) Rs 15000 (d) Rs 20000

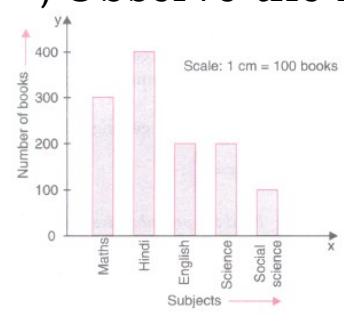
34) Observe the following bar graph carefully and answer the following question.



Of which subject are there the maximum books?

(a) Hindi (b) English (c) Maths (d) Science

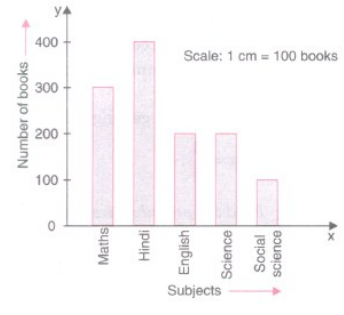
35) Observe the following bar graph carefully and answer the following question.



How many books are there of the subject whose books are maximum?

(a) 100 (b) 200 (c) 300 (d) 400

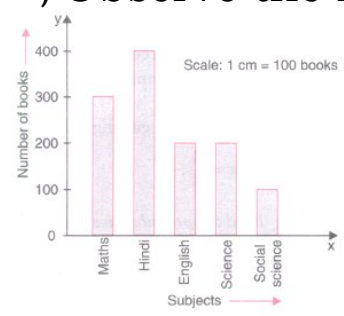
36) Observe the following bar graph carefully and answer the following question.



Of which subject are there the minimum books?

(a) Social Science (b) Hindi (c) English (d) Science

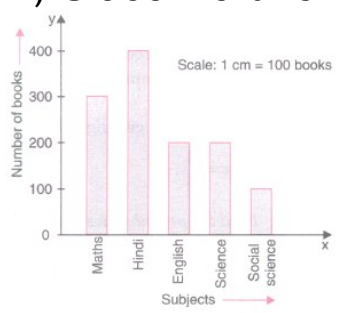
37) Observe the following bar graph carefully and answer the following question.



How many books are there of the subject whose books are minimum?

(a) 100 (b) 200 (c) 300 (d) 400

38) Observe the following bar graph carefully and answer the following question.

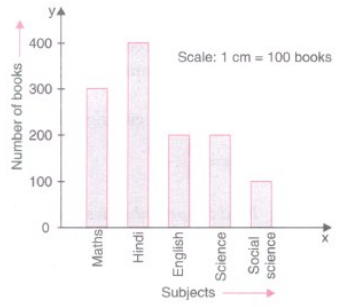


Which two subjects have the same number of books?

(a) Maths and Hindi (b) Hindi and English (c) English and Science

(d) Science and Social Science.

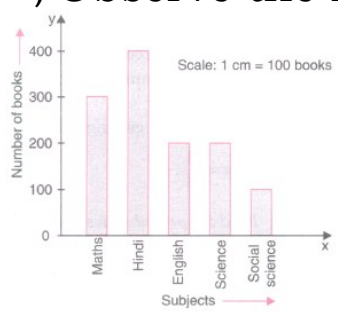
39) Observe the following bar graph carefully and answer the following question.



300 books are of the subject

(a) Maths (b) English (c) Hindi (d) Science

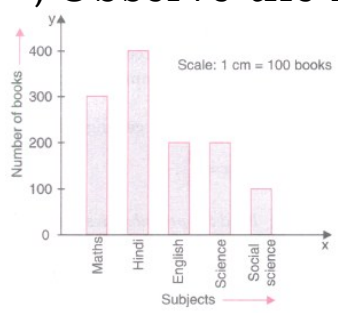
40) Observe the following bar graph carefully and answer the following question.



The difference of the number of books of English and Science is

(a) 200 (b) 100 (c) 400 (d) 0

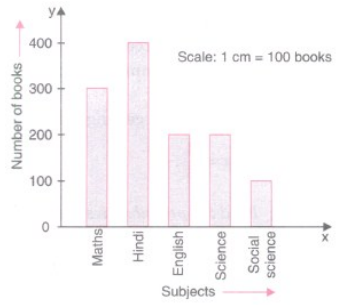
41) Observe the following bar graph carefully and answer the following question.



The difference of the number of books of Hindi and Social Science is

(a) 200 (b) 300 (c) 400 (d) 100

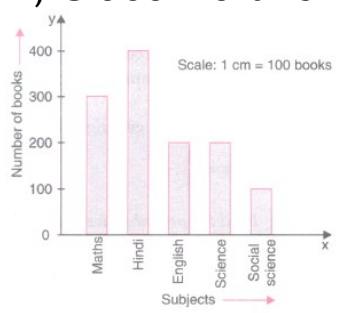
42) Observe the following bar graph carefully and answer the following question.



The total number of books is

(a) 1200 (b) 1400 (c) 1600 (d) 1800

43) Observe the following bar graph carefully and answer the following question.



The total of the number of books of English and Science is

(a) 200 (b) 100 (c) 400 (d) 0

44) Study the following frequency distribution table and answer the question given below:

Class interva Age (in years)	Number of persons
15-20	12
20-25	20
25-30	42
30-35	20
35-40	6

What is the size of the class intervals?

(a) 5 (b) 10 (c) 15 (d) 20

45) Study the following frequency distribution table and answer the question given below:

Class interva Age (in years)	Number of persons
15-20	12
20-25	20
25-30	42
30-35	20
35-40	6

Which class has the highest frequency?

(a) 15-20 (b) 20-25 (c) 25-30 (d) 35-40

46) Study the following frequency distribution table and answer the question given below:

Class interva Age (in years)	Number of persons
15-20	12
20-25	20
25-30	42
30-35	20
35-40	6

Which class has the lowest frequency?

(a) 35-40 (b) 30-35 (c) 15-20 (d) 25-30

47) Study the following frequency distribution table and answer the question given below:

Class interva Age (in years)	Number of persons
15-20	12
20-25	20
25-30	42
30-35	20
35-40	6

Which two classes have the same frequency?

(a) 15-20 and 35-40 (b) 20-25 and 30-35 (c) 15-20 and 30-35 (d) 20-25 and 25-30

48) Study the following frequency distribution table and answer the question given below:

Class interva Age (in years)	Number of persons
15-20	12
20-25	20
25-30	42
30-35	20
35-40	6

What is the upper limit of the class interval 25-30?

(a) 20 (b) 25 (c) 30 (d) 35

49) Study the following frequency distribution table and answer the question given below:

Class interva Age (in years)	Number of persons
15-20	12
20-25	20
25-30	42
30-35	20
35-40	6

What is the lower limit of the class interval 35-40?

(a) 20 (b) 25 (c) 30 (d) 35

50) Study the following frequency distribution table and answer the question given below:

Class interva Age (in years)	Number of persons
15-20	12
20-25	20
25-30	42
30-35	20
35-40	6

The difference between the frequencies of the class intervals 20-25 and 30-35 is

(a) 0 (b) 10 (c) 20 (d) 5

51) Study the following frequency distribution table and answer the question given below:

Daily wages (in Rs)	Number of workers
290-325	5
325-360	2
360-395	4
395-430	6
430-465	7
465-500	5

The upper limit of the fourth class is

(a) 430 (b) 395 (c) 465 (d) 500

52) Study the following frequency distribution table and answer the question given below:

Daily wages (in Rs)	Number of workers
290-325	5
325-360	2
360-395	4
395-430	6
430-465	7
465-500	5

The lower limit of the sixth class is

(a) 395 (b) 430 (c) 465 (d) 360

53) Study the following frequency distribution table and answer the question given below:

Daily wages (in Rs)	Number of workers
290-325	5
325-360	2
360-395	4
395-430	6
430-465	7
465-500	5

The size of the class intervals is

(a) 25 (b) 30 (c) 40 (d) 35

54) Study the following frequency distribution table and answer the question given below:

Daily wages (in Rs)	Number of workers
290-325	5
325-360	2
360-395	4
395-430	6
430-465	7
465-500	5

The frequency of the third class is

(a) 5 (b) 4 (c) 2 (d) 7

55) Study the following frequency distribution table and answer the question given below:

Daily wages (in Rs)	Number of workers
290-325	5
325-360	2
360-395	4
395-430	6
430-465	7
465-500	5

The number of workers getting daily wages 395-430 (in Rs) is

(a) 4 (b) 5 (c) 6 (d) 7

56) Study the following frequency distribution table and answer the question given below:

Daily wages (in Rs)	Number of workers
290-325	5
325-360	2
360-395	4
395-430	6
430-465	7
465-500	5

Which two classes have the same frequency?

(a) 290-325 and 465-500 (b) 290-325 and 325-360 (c) 430-465 and 465-500

(d) 325-360 and 360-395.

57) Study the following frequency distribution table and answer the question given below:

Daily wages (in Rs)	Number of workers
290-325	5
325-360	2
360-395	4
395-430	6
430-465	7
465-500	5

The class with highest frequency is

(a) 430-465 (b) 465-500 (c) 395-430 (d) 290-325

58) Study the following frequency distribution table and answer the question given below:

Daily wages (in Rs)	Number of workers
290-325	5
325-360	2
360-395	4
395-430	6
430-465	7
465-500	5

The class with lowest frequency is

(a) 325-360 (b) 360-395 (c) 465-500 (d) 395-430

59) Study the following frequency distribution table and answer the question given below:

Daily wages (in Rs)	Number of workers
290-325	5
325-360	2
360-395	4
395-430	6
430-465	7
465-500	5

The number of workers getting wages Rs 395 and above is

(a) 18 (b) 24 (c) 12 (d) 28

60) Study the following frequency distribution table and answer the question given below:

Daily wages (in Rs)	Number of workers
290-325	5
325-360	2
360-395	4
395-430	6
430-465	7
465-500	5

The number of workers getting wages below Rs 360 is

(a) 7 (b) 6 (c) 5 (d) 4

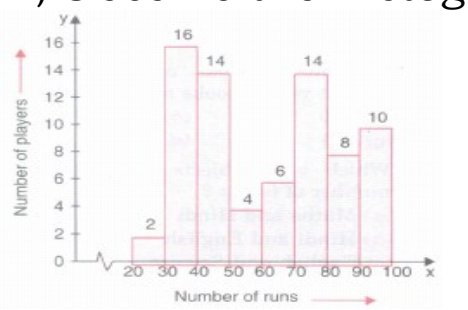
61) Study the following frequency distribution table and answer the question given below:

Daily wages (in Rs)	Number of workers
290-325	5
325-360	2
360-395	4
395-430	6
430-465	7
465-500	5

The total number of workers is

(a) 29 (b) 22 (c) 28 (d) 21

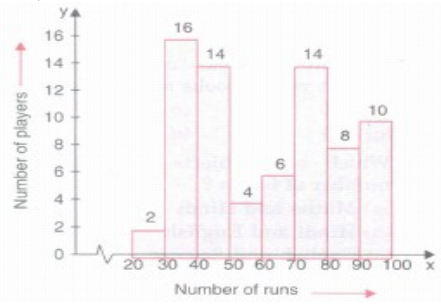
62) Observe the histogram and answer the question given below:



Which group contains maximum players?

(a) 20-30 (b) 30-40 (c) 40-50 (d) 70-80

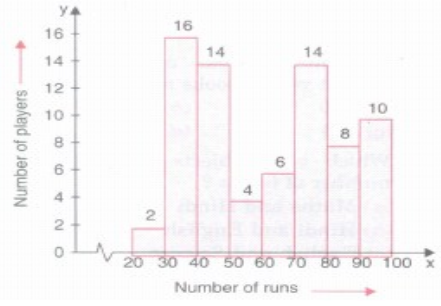
63) Observe the histogram and answer the question given below:



Which group has minimum players?

(a) 20-30 (b) 50-60 (c) 60-70 (d) 30-40

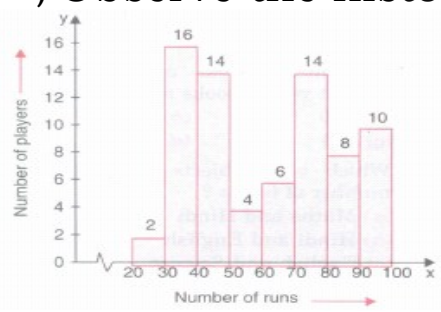
64) Observe the histogram and answer the question given below:



Which two groups have the same number of players?

(a) 30-40 and 40-50 (b) 20-30 and 30-40 (c) 40-50 and 70-80 (d) 80-90 and 90-100

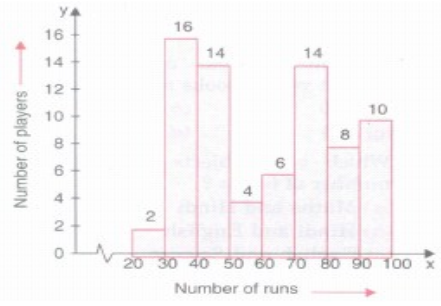
65) Observe the histogram and answer the question given below:



How many players make runs 80 and above?

(a) 2 (b) 8 (c) 10 (d) 18

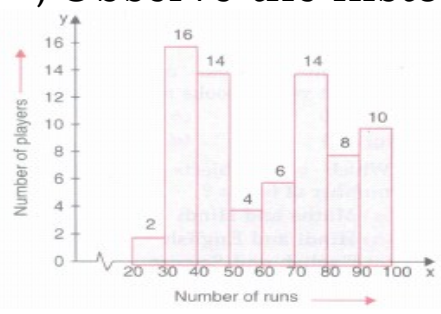
66) Observe the histogram and answer the question given below:



How many players make runs less than 40?

(a) 8 (b) 2 (c) 18 (d) 10

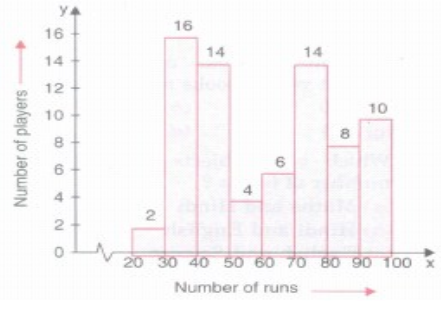
67) Observe the histogram and answer the question given below:



How many players make runs 50 to less than 60?

(a) 1 (b) 2 (c) 3 (d) 4

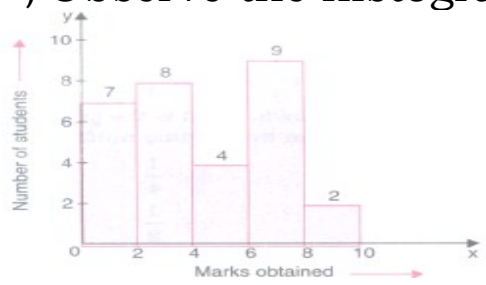
68) Observe the histogram and answer the question given below:



The total number of players making runs 20 and more is

(a) 74 (b) 64 (c) 84 (d) 54

69) Observe the histogram and answer the question given below:



The total number of students is

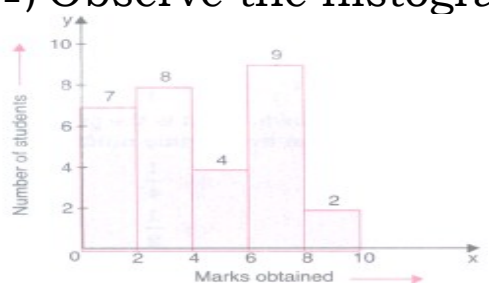
(a) 10 (b) 20 (c) 25 (d) 30

70) Observe the histogram and answer the question given below:

Which groups contain the maximum number of students?

(a) 2-4 (b) 4-6 (c) 6-8 (d) 8-10

71) Observe the histogram and answer the question given below:



Which group contains the minimum number of students?

(a) 0-2 (b) 2-4 (c) 6-8 (d) 8-10

72) Observe the histogram and answer the question given below:

The number of students getting marks 6 and above is

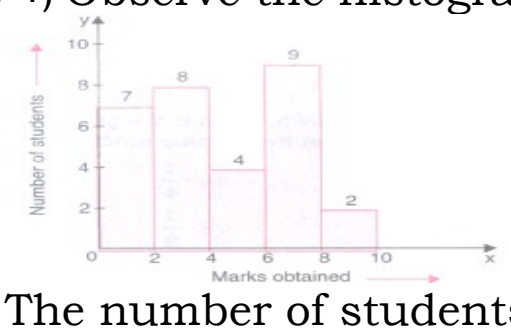
(a) 11 (b) 10 (c) 12 (d) 9

73) Observe the histogram and answer the question given below:

The number of students getting marks 4 to less than 6 is

(a) 2 (b) 4 (c) 6 (d) 8

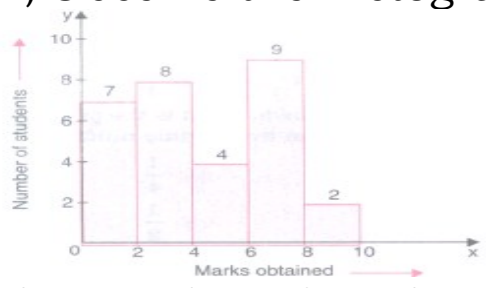
74) Observe the histogram and answer the question given below:



The number of students getting marks less than 4 is

(a) 10 (b) 15 (c) 7 (d) 8

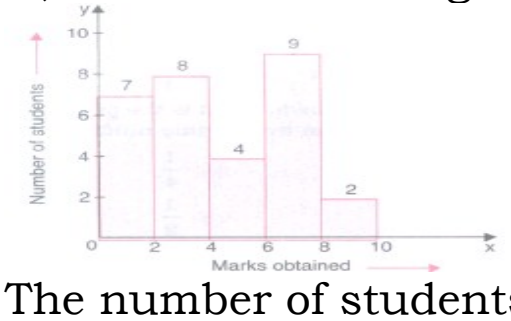
75) Observe the histogram and answer the question given below:



The number of students getting marks in the groups 4-6 or 8-10 is

(a) 2 (b) 4 (c) 6 (d) 8

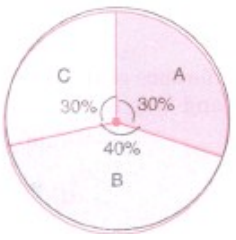
76) Observe the histogram and answer the question given below:



The number of students getting marks 6-8 is greater than the number of students getting marks 2-4 by

(a) 1 (b) 2 (c) 3 (d) 4

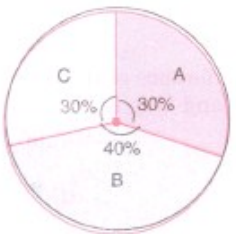
77) Observe the pie chart given below and answer the following question:



The central angle for sector A is

(a) 108° (b) 144° (c) 72° (d) 150°

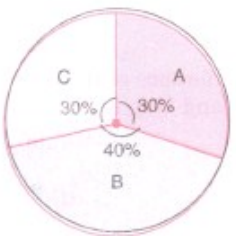
78) Observe the pie chart given below and answer the following question:



The central angle for sector B is

(a) 108° (b) 144° (c) 72° (d) 120°

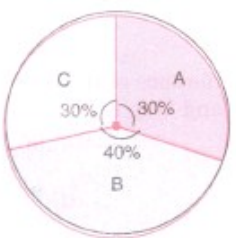
79) Observe the pie chart given below and answer the following question:



Which sector has the greatest angle?

(a) A (b) B (c) C (d) None of these

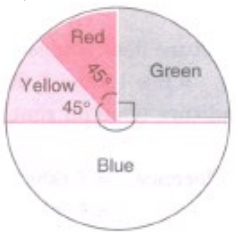
80) Observe the pie chart given below and answer the following question:



What is the difference between the central angles for sector B and sector C?

(a) 36° (b) 72° (c) 9° (d) 81°

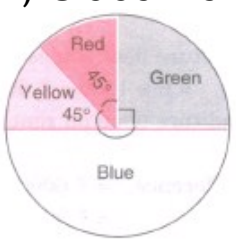
81) Observe the pie chart and answer the following question:



Which two colours have the same central angles?

(a) Red, yellow (b) Red, green (c) Yellow, green (d) Blue, red

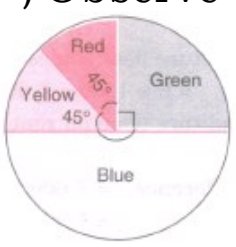
82) Observe the pie chart and answer the following question:



Which colour has the greatest central angle?

(a) Red (b) Yellow (c) Green (d) Blue

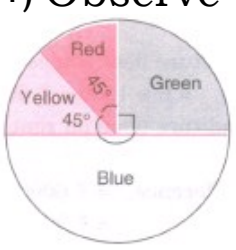
83) Observe the pie chart and answer the following question:



The proportion of sector for red is

(a) $\frac{1}{2}$ (b) $\frac{1}{4}$ (c) $\frac{1}{8}$ (d) $\frac{1}{3}$

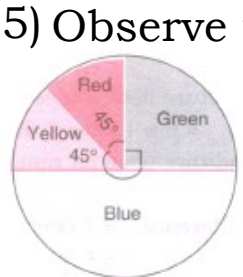
84) Observe the pie chart and answer the following question:



The difference of the central angles for green and blue is

(a) 45° (b) 90° (c) 180° (d) $22\frac{1^0}{2}$.

85) Observe the pie chart and answer the following question:



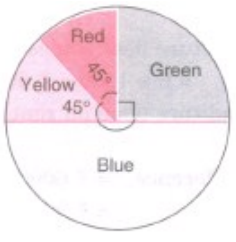
A child has a block in the shape of a cube with one letter written on each face as shown below:

A	B	C	D	E	A

The cube is thrown once. What is the probability of getting A?

(a) $\frac{1}{3}$ (b) $\frac{1}{6}$ (c) $\frac{1}{2}$ (d) $\frac{1}{4}$

86) Observe the pie chart and answer the following question:



A die is thrown. What is the probability of getting an even prime number?

(a) $\frac{1}{6}$ (b) $\frac{1}{4}$ (c) $\frac{1}{3}$ (d) $\frac{1}{2}$

18 x 1 = 18

87) Data available in an unorganised form is called _____ data.

88) _____ is used to compare parts to a whole.

89) The difference between the _____ of a class interval is called size/width of the class interval.

90) In a _____ experiment, the outcomes can not be predicted exactly in advance.

91) The large number of observations are usually organised in groups of equal width called _____.

92) The class size of the interval 28 - 32 is _____.

93) The total number of outcomes, when a die is 'thrown, is _____.

94) Histogram bars are drawn with equal _____ to a class interval without leaving any gap in between.

95) In a throw of a die, the outcomes are equally _____.

96) In a histogram, class intervals and frequencies are taken along _____ axis and _____ axis respectively.

97) The collected information of a particular context is known as _____.

98) The pictorial representation of data is known as _____.

99) _____ gives the number of times that a particular entry occurs.

100) The difference between the upper class limit and lower class limit is called _____.

101) A circle graph which shows the relationship between a whole and its parts is called _____.

102) The size of each sector is proportional to the _____ or _____ it represents.

103) A circle graph is also called as _____.

104) The central angle of the sectors will be a fraction of _____.

10 x 1 = 10

105) In a pie chart, a whole circle is divided into sectors.

(a) False (b) True

106) In the class intervals 10 - 20, 20 - 30, etc .... respectively, 20 lies in the class interval 10 - 20.

(a) True (b) False

107) The total number of outcomes when a coin is tossed is 6.

(a) True (b) False

108) The central angle of a sector in a pie chart cannot be more than 180^{o}.

(a) True (b) False

109) One or more outcomes of an experiment make an event.

(a) False (b) True

110) The probability of getting a number 6 in a throw of a die is $\frac{1}{6}$ Similarly, the probability of getting a number 4 is $\frac{1}{4}$

(a) True (b) False

111) In a throw of a die, the probability of getting an odd number is the same as that of getting an even number.

(a) False (b) True

112) 11 students got full marks.

(a) False (b) True

113) The frequency of more than 18 marks is 21.

(a) False (b) True

114) The frequency of less than 18 marks is 20.

(a) True (b) False

8 x 1 = 8

115) The probability of choosing a vowel from the alphabets is (1) equal

116) Size of the class 160 - 185 is

117) The upper limit of a class interval 160 - 185 is

118) A die is thrown, Find the probability of getting 2 on it.

119) Probability of a sure event is

120) Probability of an impossible event is

121) In a histogram there is _____ gap between the bars.

122) In a bar graph there is _____ gap between the bars

(2) no
(3) $\frac{8}{3}$
(4) $\frac{5}{25}$
(5) 185
(6) $\frac{1}{6}$
(7) 25
(8) 0

20 x 1 = 20

123) A die has six faces having dots, 1, 2, 3, 4, 5 and 6 respectively. What is the sum of dots on two faces of a die?

124) A die is thrown once. What is the probability of getting a prime-number?

125) What is the class size in the adjoining histogram?

126) piechart

127) What is the number of students of Class VIII whose marks obtained in an examination are expressed in the following frequency distribution?

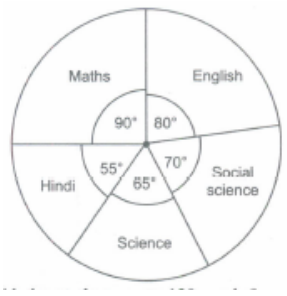
MARKS	TALLY MARKS	FREQUENCY
0-5	𝍸 |	6
5-10	𝍸 | | | |	10
10-15	𝍸 | | |	8
15-20	𝍸 | | | |	9
20-25	𝍸 | |	7
Total		…

128) The marks scored by 20 students in a test are given below:
84,57,53,89,41,57,47,64,58,44,53,72,51,78,71,62,56, 68, 54,42
Complete the following frequency table

MARKS	TALLY MARKS	NO. OF STUDENTS
40-50		
50-60		
60-70		
70-80		
80-90		

(i) What is the upper limit of 40-50?
(ii) What is the upper limit of 70--80?
(iii) What is the class size?

129) The following pie-chart represents the marks scored by a student. If he obtained 540 as total marks, answer the following questions:



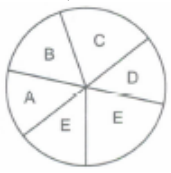
(i) In which subject did the student score 120 marks?
(ii) What is the difference in the marks obtained in Maths and English?
(iii) In which subject did he get minimum marks?

130) A die is thrown. What is the probability of getting:
(i) an even number?
(ii) an odd number?
(iii) A number between 3 and 6?

131) What is the probability of a number selected from the numbers 1, 2, 3, …. , 20 such that it is a prime number?

132) A bag contains 3 blue and 2 red balls. A ball is drawn at random. What is the probability of drawing a red ball?

133) List the possible outcomes in the adjoining spinning wheel.



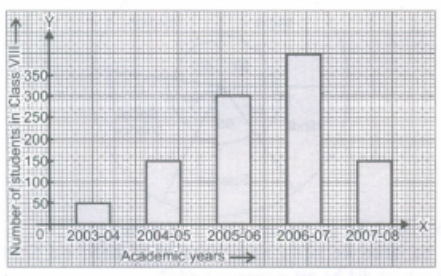
134) (i) A die is thrown. List the possible outcomes.
(ii) What is probability of getting a factor of 6?

135) (i) Find the number of outcomes of getting a sector containing G.

(ii) What is the probability of getting a sector containing R?

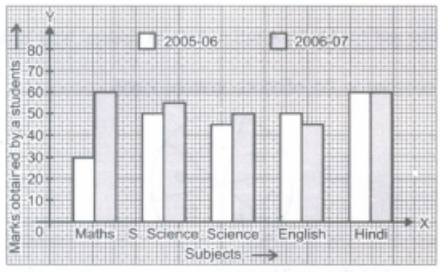
136) A bag has 4-red balls and 2 yellow balls such that the balls are identical in all repeats other than colour. A ball is drawn from the bag without looking into the bag. What is the probability of getting yellow ball?

137) Read the following bar-graph and answer the following questions



(i) What is the information given by the bar graph?
(ii) In which year the increase in the number of students is maximum?
(iii) In which year the number of students is maximum?
(iv) Is the number of students during 2005-06 twice that of 2003-04?

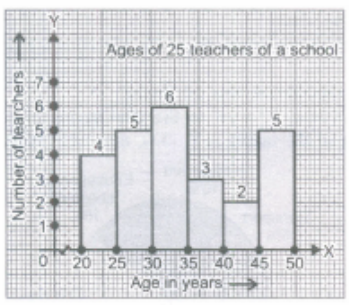
138) Read the following bar graph and answer the following questions



(i) What is the information given by the double bar graph?
(ii) In which subject has the performance improved the most?
(iii) In which subject the performance deteriorated?
(iv) In which subject is the performance at par?

139) A group of students was asked for their favourite subject. The results were listed as under: Art, Mathematics, Science, English, Mathematics, Art, English, Mathematics, English, Art, Science, Art, Science, Science, Mathematics, Art, English, Art, Science, Mathematics, Science, Art. Answer the following questions:
(i) Which is the most liked subject?
(ii) Which is the least liked subject?

140) Read the following histogram and answer the questions given below



(i) How many teachers are of age 45 years or more but less than 50 years?
(ii) How many teachers are of age less than 35 years?

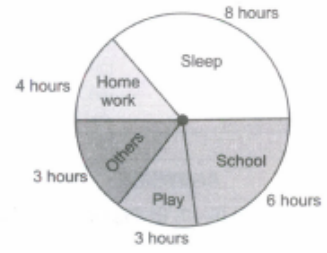
141) Read the following circle graphs and answer the questions given below:

(a) The time spent by a child during a day:

(i) On which activity maximum number of hours are spent?

(ii) On which two activities does he spend equal number of hours?

(iii) Find the central angles for each sector of activities

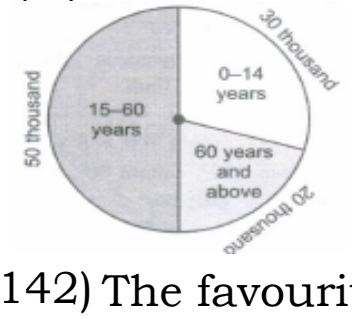


(b) Age group of people in a town:

(i) In which age group are the maximum number of people?

(ii) How many people are there is the '0-14 years' group?

(iii) Find the central angle of the sector corresponding to the age group 15-60 years'.



142) The favourite flavours of ice-creams for students of a school is given in percentages as follows

FLAVOURS	**PERCENTAGE OF STUDENTS PREFERRING THE FLAVOURS**
Chocolate	50%
Vanilla	25%
Other flavours	25%

Represent the data in a pie chart.

64 x 2 = 128

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

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

Production of food grains of a state.

144) Choice of food for a group of people.

Favourite food	**Number of people**
North Indian	30
South Indian	40
Chinese	25
Others	25
Total	120

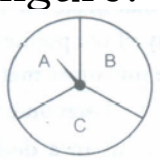
145) The daily income of a group of a factory workers

Daily income (in Rs)	**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

146) If you try to start a scooter, what are the possible outcomes?

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

148) When you spin the wheel shown, what are the possible outcomes in the following figure? List them.



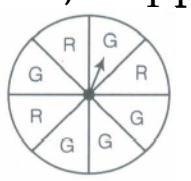
149) You have a bag with five identical balls of different colours and you are to pull out (draw) a ball without looking at it. List the outcomes you would get in adjoining figure.

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

151) In throwing a die:
Would the player who played after him have a lesser chance of getting a six?

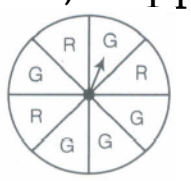
152) In throwing a die:
Suppose the second player got a six. Does it mean that the third player would not have a chance of getting a six?

153) Suppose you spin the wheel.



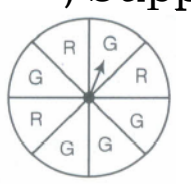
List the number of outcomes of getting a green sector and not getting a green sector on this wheel (in the above figure).

154) Suppose you spin the wheel.



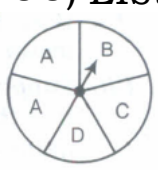
Find the probability of getting a green sector.

155) Suppose you spin the wheel.



Find the probability of not getting a green sector.

156) List the outcomes you can see in these experiments.



Spinning a wheel.

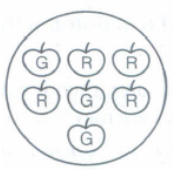
157) List the outcomes you can see in these experiments.
Tossing two coins together.

158) When a die is thrown, list the outcomes of an event of getting
(a) a prime number.
(b) not a prime number.

159) When a die is thrown, list the outcomes of an event of getting
(a) a number greater than 5.
(b) a number not greater than 5.

160) Find the probability of getting an ace from a well-shuffled deck of 52 playing cards?

161) Find the probability of getting a red apple (see figure below)



162) 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?

163) 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?

164) 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?

165) 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 one-digit number?

166) 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?

167) Following are the number of members in 25 families of a village:
6, 8, 7, 7, 6, 5, 3, 2, 5, 6, 8, 7, 7, 4, 3, 6, 6, 6, 7, 5, 4, 3, 3, 2, 5.
Prepare a frequency distribution table for the data using class intervals 0 - 2, 2 - 4 etc.

168) A die was thrown 28 times and following scores were obtained:
3, 2, 3, 6, 1, 5, 2, 6, 3, 5, 4, 1, 6, 1, 4, 2, 5, 1, 5, 2, 4, 3, 2, 3, 3, 6, 4, 1
Prepare the frequency table for the scores.

169) Following numbers related to the weekly wages (in Rs) of 18 workers in a factory :
300, 200, 150, 350, 200, 300, 350, 150, 200, 350, 150, 300, 350, 250, 250, 200, 300, 350
Prepare frequency table.
(i) What is the range in wages (in Rs)?
(ii) How many workers are getting Rs 200?
(iii) How many workers are getting the minimum wages?

170) The earning of 50 shops on a particular day are as follows (the figures have been estimated to the nearest hundreds):

Earning (in Rs)	800	1300	1700	2300	2800	3200	3400
Number of shops	7	9	2	5	17	7	4

Prepare a grouped frequency distribution table taking class interval of equal size, one such interval being 1500 - 2000.

171) The marks scored by 24 students in a test are given below:
64, 47, 58, 44, 53, 72, 51, 41, 57, 89, 53, 84, 57, 78, 71, 56, 62, 54, 42, 68, 53, 68, 49, 56
Complete the following frequency table:

Marks in class intervals	**Tally marks**	**Frequency (Number of students)**
40 - 50		
50 - 60		
60 - 70		
70 - 80		
80 - 90		

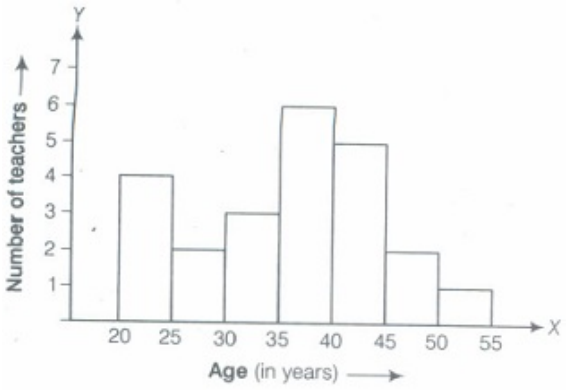
What is the class interval in which the greatest frequency occurs?

172) Number of workshops organised by a school in different areas during the last five years are as follows:

Years	Number of workshops
1995 - 1996	25
1996 - 1997	30
1997 - 1998	44
1998 - 1999	52
1999 - 2000	65

Draw a histogram representing the above data.

173) The following histogram show that the frequency distribution of the age of 22 teachers in a school



(i) What is the number of eldest and youngest teachers in a school?
(ii) Which age group teachers are more in the school and which least?
(iii) What is the size of classes?

174) The following data represents the different type of animals and their numbers in a zoo. Prepare a pie chart for the given data.

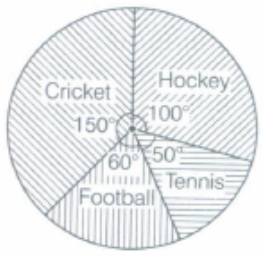
Animals	**Number of animals**
Deer	42
Elephants	15
Giraffe	26
Reptiles	24
Tiger	13

175) For the development of basic infrastructure in a district, a project of Rs.108 crore approved by Development Bank is as follows:

Item head	Road	Electricity	Drinking Water	Sewerage
Amount (incrore Rs)	43.2	16.2	27.0	21.6

Draw a pie chart for the above data.

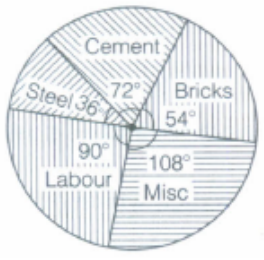
176) The pie chart (as shown) represents the amount spenton different sports by a sports club in a year. If the total money spend. by the club on sports in Rs 300000, then find the amount spend on each sport.



177) Represent the following data with the help of a pie diagram.

Items	Wheat	Rice	Tea
Production (in metric tonnes)	1840	3260	900

178) If the pie chart for a construction of a house in a city is given below. Then, find the percentage of each item used.



179) A marketing company conducted a survey among 10000 persons in Kanpur:

Students	Professionals	Govt.servants	Business man	Housewife
45%	30%	13%	10%	2%

Then, draw pie chart and determine the number of persons which are professionals.

180) If a coin is tossed 13 times and tail turns up to 7 times, what is the probability of occurrence of tail?

181) If you have a spinning wheel with 3 green sectors, 5 black sectors and 10 red sectors. What is the probability of getting a green sector and what is the probability of getting a non-black sector?

182) From a pack of well-shuffled cards, what is the probability of getting a black face card?

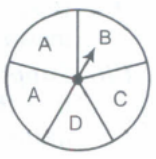
183) From a pack of well-shuffled cards, what is the probability of getting a red jack?

184) From a pack of well-shuffled cards, what is the probability of getting a red card of ace?

185) From a pack of well-shuffled cards, what is the probability of getting a black king?

186) From a pack of well-shuffled cards, what is the probability of getting an ordinary card?

187) Find the probability of the pointer stopping on D.



188) In a school, only 13 out of 15 students can participate in a competition. What is the probability of the students who do not makeitto the competition?

189) Himanshu draws a ball from a bag that contains 10 white and 20 yellow balls. Find the probability of choosing a white ball.

190) In a throw of a die, find the probability of getting a prime number on it.

191) What is the probability that a number selected from the numbers 3, 4, 5, 6, ... , 20 is an odd number?

192) What is the probability that a number selected from the numbers 3, 4, 5, 6, ... , 20 is a multiple of 3?

193) It is known that a box of 800 electric bulbs contains 180 defective bulbs. If one bulb is taken out at random from this box, then what is the probability that it is a non-defective bulb?

194) In a lottery, there are 65 prizes and 455 are blanks. A ticket is chosen at random. What is the probability of getting a prize?

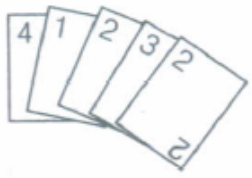
195) If a die is thrown, then what is a probability of getting a number, which is even and greater than 2?

196) Find the probability that a vowel selected at random from the vowels is u.

197) From the normal pack cards, a card is drawn at random. Find the probability of not getting a king.

198) Numbers 1 to 25 are marked on tokens of equal size, one on each. A token is drawn at random. Find the probability of getting a number, divisible by 2 and 3.

199) Rohan and Shalu are playing with 5 cards as shown in the figure. What is the probability of Rohanpicking a card without seeing, that has the number 2 on it?



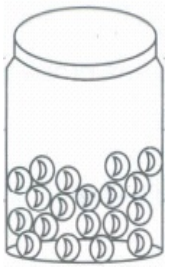
200) The probability that it will rain tomorrow is 0.25. what is the probability that it will not rain tomorrow?

201) Given below are the marks obtained by 10 students of a class in a test.
10, 8, 12, 17, 19, 17, 41, 40, 12
Which is the range of above data

202) Tally marks are used to finds which of the following:
(i) frequency
(iii) Class size
(ii) Class a intervals
(iv) range

203) A coin is tossed three times. Find the number of possible outcomes.

204) A glass jar contains 6 red, 5 green, 4 blue and 5 yellow marbles of same size. Hari takes out a marble from the jar at random. What is the probability that the chosen marble is of red colour?



205) Which colour received $\frac{1}{5}$ of the votes?

206) If 400 students voted in all, then how many did vote 'others' colour as their favourite?

64 x 3 = 192

207) If we change the position of any of the bars of a bar graph, would it change the information being conveyed? Why?

208) 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, at, dog, cal, cat, dog, rabbit, cat, fish, dog
Make a frequency distribution table for the same.

209) Study the following frequency distribution table and answer the questions given below

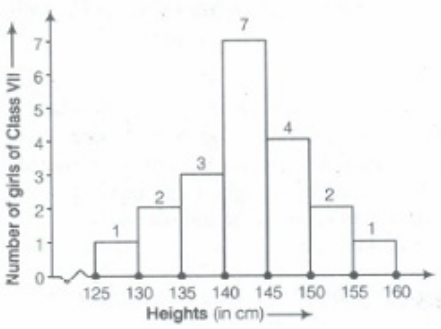
Frequency Distribution of Daily Income of 550 workers of a factory

Class Interval (Daily income in Rs)	**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

(i) What is the size of the class intervals?
(ii) Which class has the highest frequency?
(iii) Which class has the lowest frequency?
(iv) What is the upper limit of the class interval 250 - 275?
(v) Which two classes have the same frequency?

210) 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.

211) Observe the histogram in the following figure and answer the questions given below:

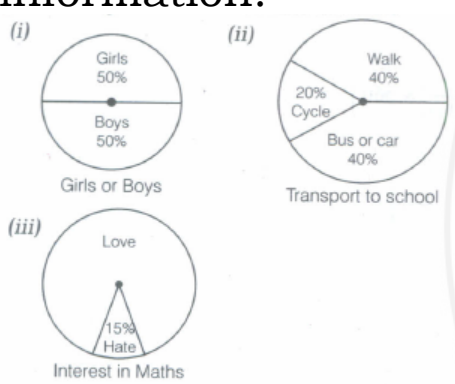


(i) What information is being given by the histogram?
(ii) Which group contains maximum girls?
(iii) How many girls have a height of 145 cm and more?
(iv) If we divide the girls into following three categories, how many would there be in each?

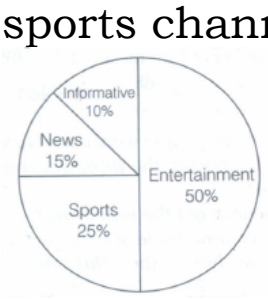
150 cm and more	- Group A
140 cm to less than 150 cm	- Group B
Less than 140 cm	- Group C

212) 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 am to 7: 00 pm at a station.
Give reasons for each.

213) Each of the following pie charts (see the following figures), gives you a different piece of information about your class. Find the fraction of the circle representing each of these information.



214) Answer the following questions based on the pie chart in following figure.
(i) Which type of programmes are viewed the most?
(ii) Which two types of programmes have number of viewers equal to those watching sports channels?

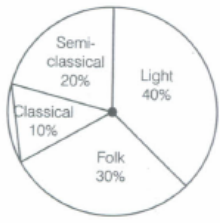


Viewers watching different types of channels on TV.

215) Draw a pie chart of the data given below:
The time spent by a child during a day.

Sleep	8h
School	6h
Home work	4h
Play	4h
Others	2h

216) A survey was made to find the type of music that a certain group of young people liked in a city. Following pie chart shows the findings of this survey. From the pie chart given below, 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?

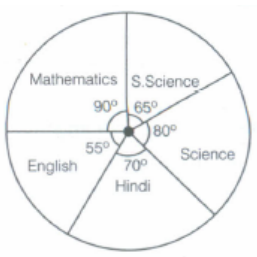
217) A group of 360 people were asked to vote for their favourite season from the three seasons rainy, winter and summer.
(i) Which season got the most votes?
(ii) Find the central angle of each sector.
(iii) Draw a pie chart to show this information.

Season	Number of votes
Summer	90
Rainy	120
Winter	150
Total	360

218) 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

219) The following 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:



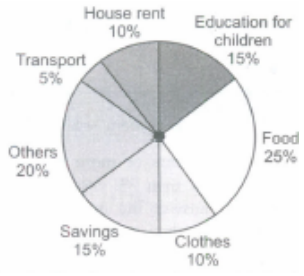
(i) In which subject did the student score 105 marks?
(ii] How many more marks were obtained by the student in Mathematics than in Hindi?
(iii) Examine whether the sum of the marks obtained in Social Science and Mathematics is more than that in Science and Hindi.

220) 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.

221) 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

222) The adjoining pie chart gives the expenditure (in percentages) on various items and savings of a family during a month.
(i) On which item, the expenditure was minimum?
(ii) Expenditure on which item is equal to the total saving of the family?
(iii) If the monthly saving of the family is RS. 3000, then what is the monthly expenditure on clothes?



223) Find the probabilities of the events given below
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.

224) 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?

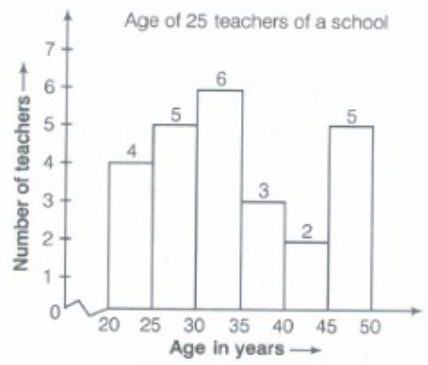
225) On a particular day, the sales (in rupees) of different items of a baker's shop are given below.

ordinary bread	320
fruit bread	80
cakes and pastries	160
biscuits	120
others	40
Total	720

Draw a pie chart for this data.

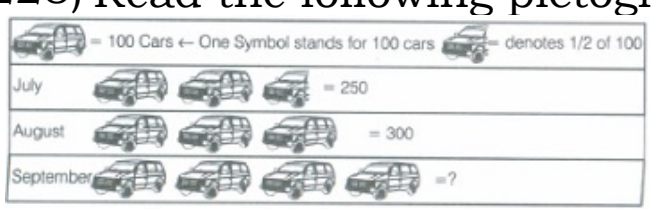
226) Draw a histogram for the frequency table made for the data given and answer the following questions.
830, 835, 890, 810, 835, 836, 869, 845, 898, 890, 820, 860, 832, 833, 855, 845, 804, 808, 812, 840, 885, 835, 835, 836, 878, 840, 868, 890, 806, 840
(i) Which group has the maximum number of workers?
(ii) How many workers earn Rs. 850 and more?
(iii) How many workers earn less than RS. 850?

227) Consider the histogram given below:



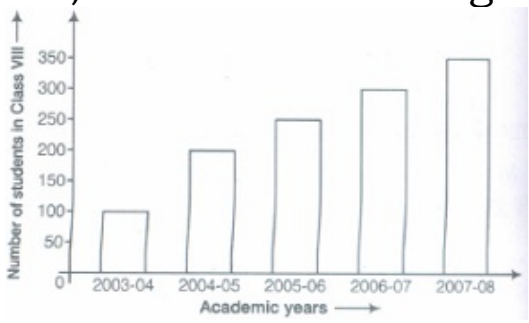
From the bars of this histogram, answer the following questions:
(i) How many teachers are of age 45 yr or more but less than 50 yr?
(ii) How many teachers are of age less than 35 yr?

228) Read the following pictograph and answer the following questions.



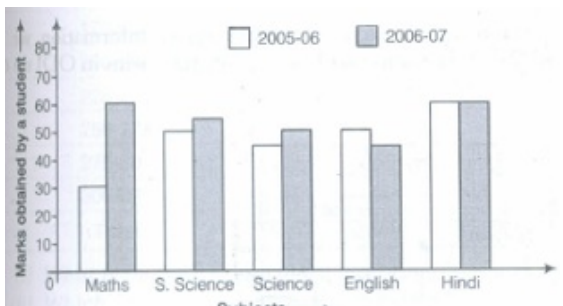
(i) How many cars were produced in the month of July?
(ii) In which month were maximum number of cars produced?

229) Read the following bar graph and answer the following questions.



(i) What is the information given by the bar graph?
(ii) In which year is the increase in the number of students maximum?
(iii) In which year is the number of students maximum?
(iv) State whether true of false:
'The number of students during 2005 - 06 is twice that of 2003 - 04.'

230) A bar graph showing two sets of data simultaneously. It is useful for the comparison of the data.



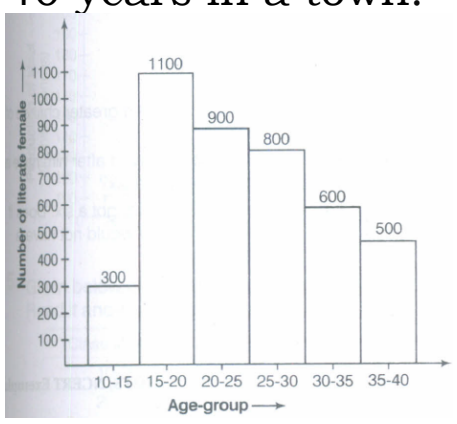
(i) Whatis the information given by the double bar graph?
(ii) In which subject has the performance improved the most?
(iii) In which subject has the performance deteriorated?
(iv) In which subject is the performance at par?

231) In the month of July 2004, a house "holder spent his monthly salary amounting to Rs 7200 on different items as given below:

Items	Clothing	Food	House rent	Education	Miscellaneous
Amount spent (in Rs)	600	4000	1200	400	1000

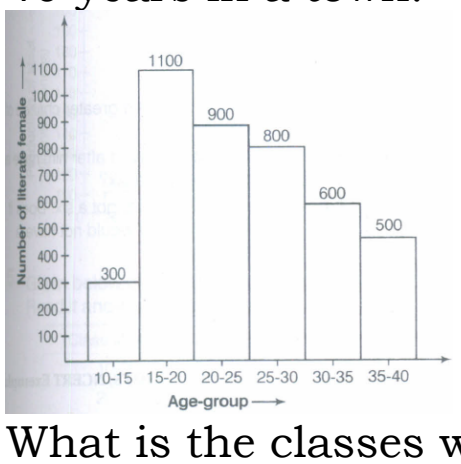
Represent the information in the form of a pie chart.

232) The below histogram shows the number of literate females in the age group of 10 to 40 years in a town:



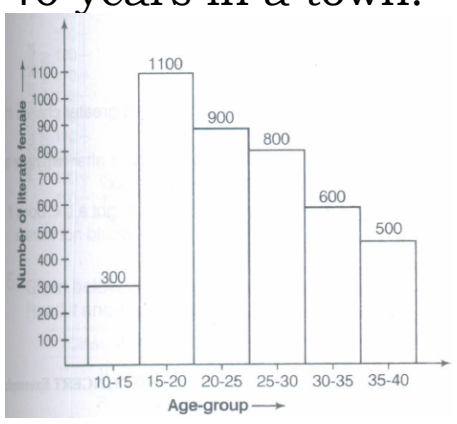
Write the classes assuming all the classes are of equal width.

233) The below histogram shows the number of literate females in the age group of 10 to 40 years in a town:



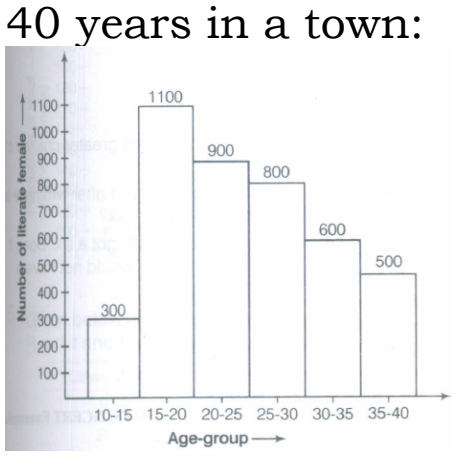
What is the classes width?

234) The below histogram shows the number of literate females in the age group of 10 to 40 years in a town:



In which age group are literate females the least?

235) The below histogram shows the number of literate females in the age group of 10 to 40 years in a town:



In which age group is the number of literate females the highest?

236) The marks obtained (out of 20) by 30 students of a class in a test are as follows:
14, 16, 15, 11, 15, 14, 13, 16, 8, 10, 7, 11, 18, 15, 14, 19, 20, 7, 10, 13, 12, 14, 15, 13, 16, 17, 14, 11, 10, 20
Prepare a frequency distribution table for the above data using class intervals of equal width in which one class interval is 4-8 (excluding 8 and including 4).

237) Prepare a histogram from the frequency distribution table

Class Interval	**Frequency**
4 - 8	2
8 - 12	7
12 - 16	13
16 - 20	6
20 - 24	2

238) In a hypothetical sample of 20 people, the amount of money (in thousand of rupees) with each was found to be as follows:
114, 108, 100, 98, 101, 109, 117, 119, 126, 131, 136, 143, 156, 169, 182, 195, 207, 219, 235, 118
Draw a histogram of the frequency distribution, taking one of the class intervals as 50-100. Including 100 and excluding 50.

239) In a hypothetical sample of 20 people, the amount of money (in thousand of rupees) with each was found to be as follows:
114, 108, 100, 98, 101, 109, 117, 119, 126, 131, 136, 143, 156, 169, 182, 195, 207, 219, 235, 118
Find in which class intervals, the number of people were maximum and minimum

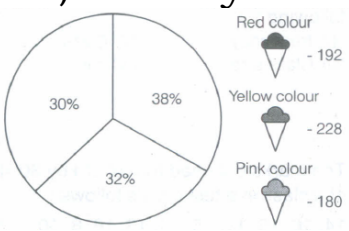
Class interval	Tally marks	Frequency
50 - 100	II	2
100 - 150	𝍸𝍸	11
150 - 200	III	4
200 - 250	III	3

240) In the time table of a school, periods allotted per week to different teaching subjects are given below:

Subjects	Hindi	English	Maths	Science	Social Science	Computer	Sanskrit
Periods allotted	7	8	8	8	7	4	3

Draw a pie chart for this data.

241) Identify which symbol should appear in each sector.



242) From a pack of well-shuffled cards, find the probability of getting a picture card.

243) From a pack of well-shuffled cards, find the probability of getting a 4 of spade.

244) From a pack of well-shuffled cards, find the probability of getting an ace of club.

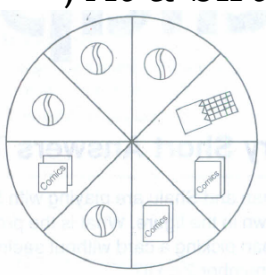
245) From a pack of well-shuffled cards, find the probability of getting a card of diamond.

246) Shubham draws a ball from a bag that contains white and yellow balls. The probability of choosing a white ball is $\frac{2}{9}$ If the total number of balls in the bag is 36, find the number of yellow balls.

247) At a birthday party, the children spin a wheel get a gift.

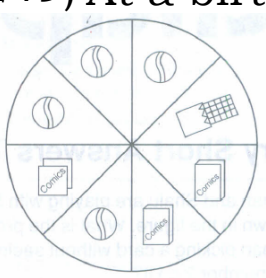
Find the probability of getting a ball.

248) At a birthday party, the children spin a wheel get a gift.



Find the probability of getting a comics.

249) At a birthday party, the children spin a wheel get a gift.



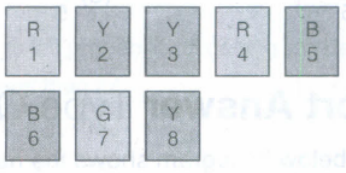
Find the probability of any gift except a chocolate.

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

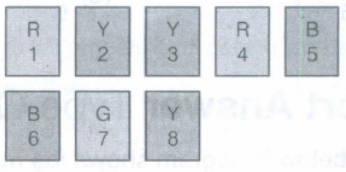
251) In throwing a die:
Would the player who played after him have a lesser chance of getting a six?

252) 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?

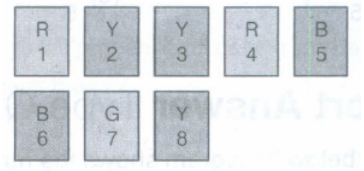
253) Swapnish picks up a card from the given cards Calculate the probability of getting an odd number



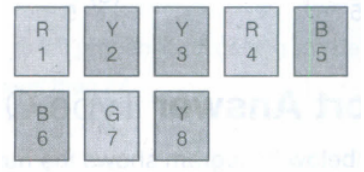
254) Swapnish picks up a card from the given cards Calculate the probability of getting a Y card



255) Swapnish picks up a card from the given cards Calculate the probability of getting a G card



256) Swapnish picks up a card from the given cards Calculate the probability of getting B card bearing number > 7



257) Which of the following is a reasonable conclusion for the given data?

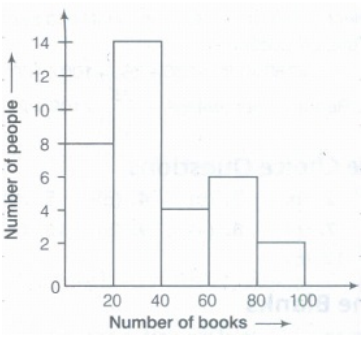
(a) $\frac{1}{20}$ th student voted for blue colour.

(b) Green is the least popular colour.

(c) The number of students, who voted for red colour is two times the number of students who voted for blue colour.

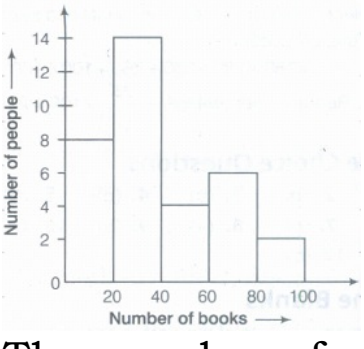
(d) Number of students liking together yellow and green colour is same as those for together Red and blue colour.

258) Following Histogram shows the number of people owning the different number of books.



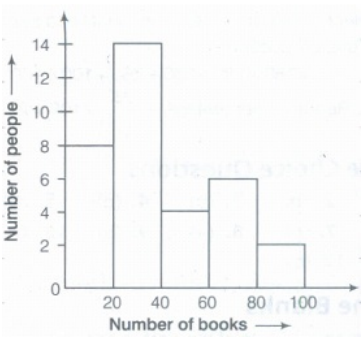
The total number of people surveyed is.

259) Following Histogram shows the number of people owning the different number of books.



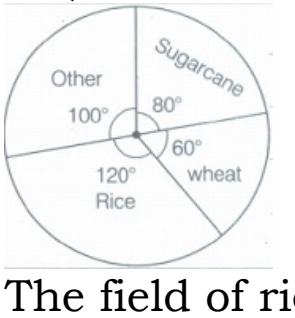
The number of people owning books more than 60 is .....

260) Following Histogram shows the number of people owning the different number of books.



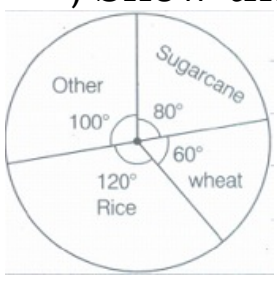
The number of people having books more than 20 and less than 40 is .....

261) Show that the annual agricultural field of a certain place.



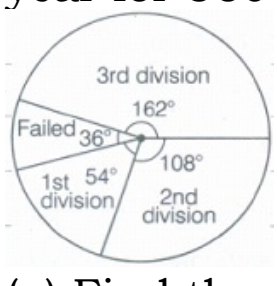
The field of rice is how much per cent more than of sugarcane?

262) Show that the annual agricultural field of a certain place.



Find the ratio of field of rice and wheat with sugarcane and others.

263) The following pie chart shows that the performance is an examination in a particular year for 360 students. Study the pie chart and answer the question given here.



(a) Find the number of students who passed with 1st division.
(b) Find the number of students who passed with 2nd division with more than those with 1st division.

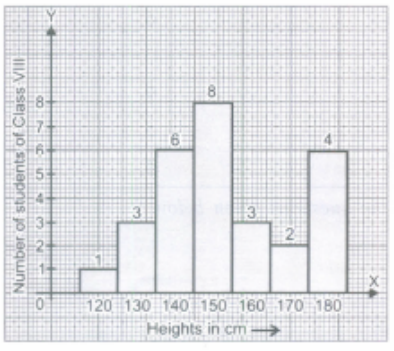
264) Given below are the marks obtained by 30 students of a class in a test
10, 8, 12, 17, 19, 17, 41, 40, 12, 46, 37, 17, 1, 9, 21,]3, 48, 12, 21, 19, 33, 5, 38, 39, 19, 23, 2, 6, 30, 27.
Using tally marks prepare a frequency table such that 20-30 is a class interval.

265) Study the following frequency table and answer the questions given below.
(i) What is the class interval?
(ii) Which class has the lowest frequency?
(iii) Which class has the highest frequency?
(iv) Which two classes have the same frequency?

CLASS INTERVAL (DAILV INCOME IN RUPEES)	**FREQUENCY (NUMBER OF WORKERS)**
200-225	25
225-250	38
250-275	42
275-300	45
300-325	17
325-350	23
350-375	45
375-400	120
Total	365

(v) What is the lower limit of the class interval 300-325?
(vi) What is the upper limit of the class interval 275-300?

266) Observe the following histogram and answer the questions given below:



(i) What information is being given by the histogram?
(ii) Which group contains the maximum students?
(iii) How many students have a height of 160 em and more?
(iv) What is the ratio of the number of students in 130-140 em group and the number of students in 160-170 em groups?

267) Look at the adjoining circle graph and answer the following questions.

(i) What is the central angle corresponding to the activities "school and home work"?
(ii) Find the fraction of the circle representing each of these given information.

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

LANGUAGE	HINDI	ENGLISH	BENGALI	MARATHI	TAMIL	TOTAL
Number of students	12	40	7	4	9	72

269) Numbers I to 10 are written on ten separate cards such that one number on one slip. These are mixed well and one slip is chosen from the box without looking into it. What is the probability of
(i) getting a card on which 7 is written?
(ii) getting a card having two-digit number on it?
(iii) getting a number less than 5?
(iv) getting a number more than 5?

270) When a die is thrown, list the outcomes of an event of getting:
(i) A number less than 5
(ii) A composite number
(iii) A prime number
(iv) A number more than 3

1 x 4 = 4

271) Present the following data in the form of a grouped frequency distribution table having 6 classes of equal size (one of the class being 40-48):

30	39	58	17	34	50	23	37
42	49	55	59	19	28	47	49
18	60	56	36	58	35	55	37
25	34	39	61	53	33	36	53
61	62	39	53	21	18	28	23

25 x 5 = 125

272) Draw an appropriate graph to represent the given information.

MONTHS	July	August	September	October	November	December
NUMBER OF WATCHES SOLD	1000	1500	1500	2000	2500	1500

273) Draw an appropriate graph to represent the given information.

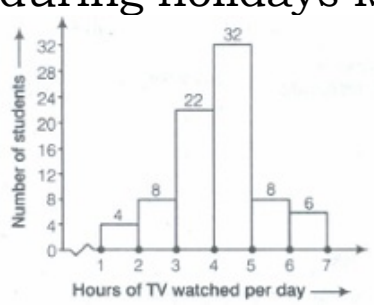
CHILDREN WHO PREFER	SCHOOL A	SCHOOL B	SCHOOL C
Walking	40	55	15
Cycling	45	25	35

274) Percentage wins in ODI by 8 top cricket teams.

Teams	From champions trophy to world cup 2006	Last 10 001 in 2007
South Africa	75%	78%
Australia	61%	40%
Sri Lanka	54%	38%
New Zealand	47%	50%
England	46%	50%
Pakistan	45%	44%
West Indies	44%	30%
India	43%	56%

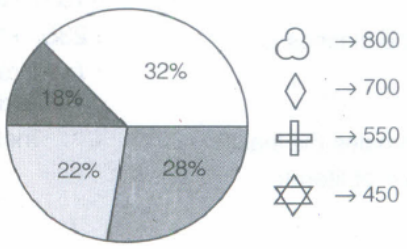
275) The shoppers who come to a departmental store are marked as Man (M), Woman (W), Boy (B) or Girl (G). The following list gives the shoppers who came during the first hour in the morning:
W W W G B W W M G G M M W W W W G B M W B G G M W W M M W W W M W B W G M W W W W G W M M W W M W G W M G W M M B G G W
Make a frequency distribution table using tally marks. Draw a bar graph to illustrate it.

276) 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 h?
(iii) How many students spent more than 5 h in watching TV?

277) Identify, which symbol should appear in each sector.

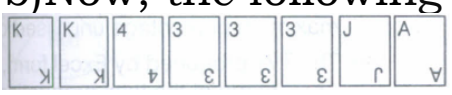


278) The following data represents the approximate percentage of water in various oceans.
Prepare a pie chart for the given data.

Pacific	40%
Atlantic	30%
Indian	20%
Others	10%

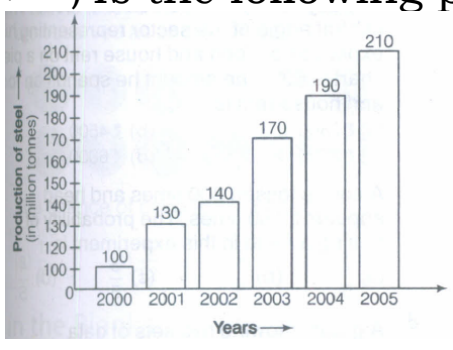
279) (a)From a pack of cards, the following cards are kept face down.

Suhail wins if he picks up a face card. Find the probability of Suhail winning?
b)Now, the following cards are added to the above cards:



Whatis the probability of Suhail winning now?
Reshmawins, if she picks up a 4. What is the probability of Reshma winning? [queen, king and jack cards are called face cards.]

280) Is the following pictorial representation of data a histogram?

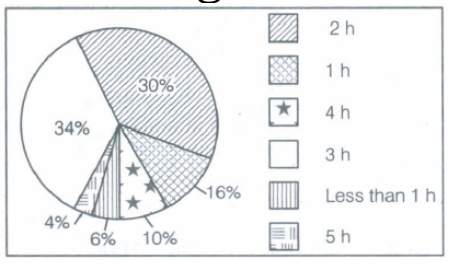


281) Given below is a frequency distribution table. Read it and answer the questions that follow:

Class Interval	Frequency
10 - 20	15
20 - 30	10
30 - 40	14
40 - 50	15
50 - 60	12

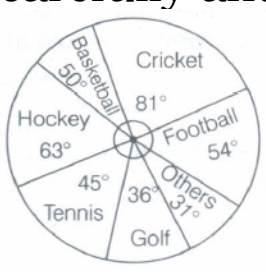
(a) Whatis the lower limit of the second class interval?
(b) Whatis the upper limit of the last class interval?
(c) What is the frequency of the third class?
(d) Which interval has a frequency of 15?
(e) Which interval has a lowest frequency?
(f) What is the class size?

282) Given below is a pie chart showing the time spend by a group of 700 children in different games. Observe it and answer the questions that follow.



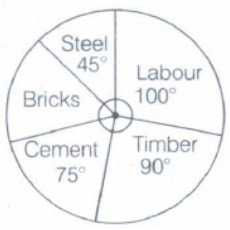
(a) How many children spend at least 1 h in playing games?
(b) How many children spend more than 2 h in playing games?
(c) How many children spend 3 or lesser hours in playing games?
(d) Which is greater number of children who spend 2 h or more per day or number of children who play for less than 1 h?

283) The circle graph given here shows that the spending of a country on various sports during a particular year for promoting sport in schools and colleges. Study the graph carefully and answer the question given below it.



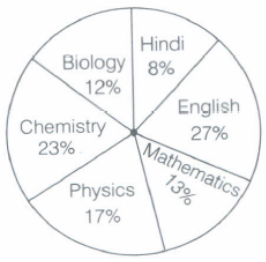
(a) If the total amount spent on sports during the year was Rs 2 crore, then find the amount spent on cricket and hockey together.
(b) What type of value depict here.

284) The following pie chart represents a total expenditure of Rs 540000 on different items in constructing a flat in a town. Study the pie chart and answer the questions.



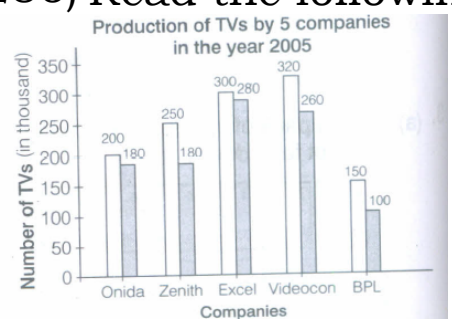
(a) Find the expenditure (in Rs) on bricks.
(b) How much expenditure on bricks is less than the expenditure on timber (in Rs)?

285) Study the following pie chart carefully to answer the questions.
Percentage wise distribution of teachers who teach six different subjects shown below.



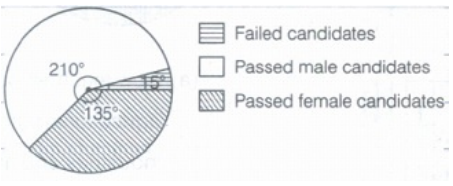
If total number teachers = 1800
(a) What is the total number of teachers teaching Chemistry, English and Biology?
(b) What is the difference between the total number of teachers who teach English and Physics together and the total number of teachers who teach Mathematics and Biology together?

286) Read the following chart carefully and answer the questions that follow.



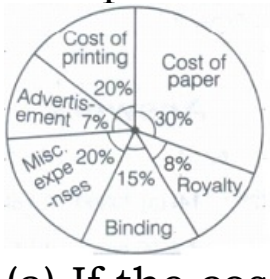
(a) ln year 2005, which company had the maximum percentage unutilised capacity.
(b) The TVs produced by Excel form, what percentage of the total production?

287) The following pie chart show that the analysis result of an examination in which the candidate have failed is five. Study the pie chart and answer the question given below.



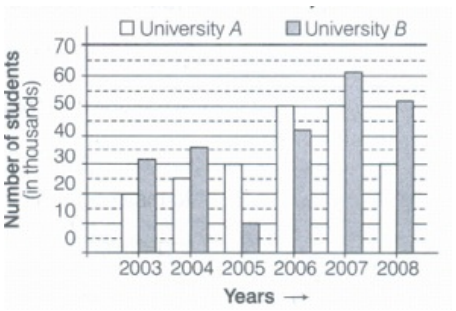
(a) Find the total number of examinees.
(b) Find the percentage of passed female candidates with respect to the total examinees.

288) In the adjacent pie chart, percentage expenses on various items during the production of a book are given. Based upon the information given the pie chart, answer the question given below.



(a) If the cost of paper is Rs 150000, then find the expenses on advertisement.
(b) Find the central angle corresponding to the cost of printing.

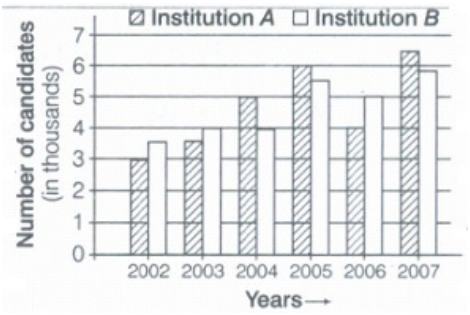
289) Study the following bar diagram and answer the question that follows.
Number of students passed (in thousand) **from two universities over the years**



(a) What is the difference between the total number of students passed from both the universities in the year 2007 together and the total number of students passed in year 2005 from both the universities together?
(b) What is the sum of students passed from university B in the years 2003 - 2005 and 2006 together?

290) Study the following graph and answer the question that follows.

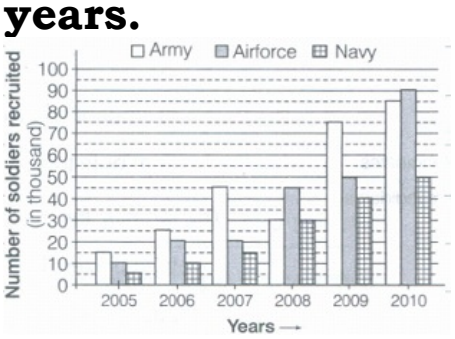
Number of candidates (in thousand) **qualified in the written test for admission to two different institutions.**



(a) What is the difference between the total number of candidates qualified in written test in the year 2006 for admission to institutions A and B together and the number of candidates qualified in written test in the year 2003 for admission to institute A?
(b) What was the total number of candidates qualified in the written test for admission to institution A over all the years together?

291) Study the following graph carefully to answer the question that follows.

Number of soldiers recruited (in thousand) in **three different forces in six different years.**

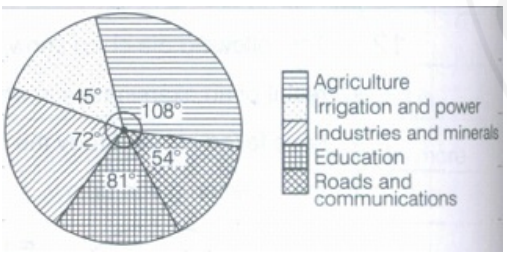


(a) Number of soldiers recruited in Navy in the year 2009 was what percentage of number of soldiers required in Army in the year 2006?
(b) If 30% of soldiers recruited in Airforce in the year 2010 was female, then what is the number of males recruited in Airforce in that year?

292) Find the probability of getting a head in a throw of a coin.

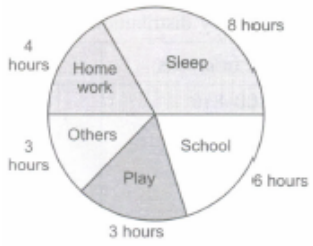
293) A die is thrown, what is the probability of getting a number less than 3?

294) The following pie chart represents the proposed outlay of the 5 yr plan of Rs 40000 crore. Examine the following pie chart and answer the question that follows.



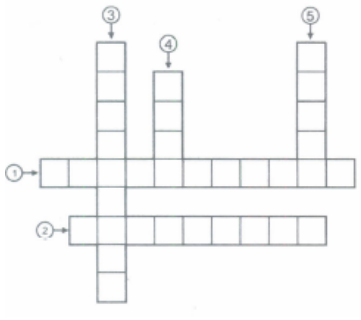
(a) How much amount proposed on agriculture is more than that on industries and minerals in measure?
(b) How much amount (in Rs crore) proposed on irrigation and power is less than that on industries and minerals?

295) Look at the following circle graph and answer the questions given below:



(i) Find the fraction of the circle representing each of these given information.
(ii) What is the central angle corresponding to the activities "Play" and "Home work"?

296) Complete the following crossword puzzle using the given directions for ACROSS [from left to right] and DOWN [from top to bottom].



Across:

(1) _____ is the measure of the chance of the happening of an event.

(2) _____ is the number of times a particular entry occurs.

Down:

(3) _____ is a special type of bargraph in which the rectangles are having no gap between them.

(4) The numerical information is called _____

(5) The probability of a sure is _____ 1.

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