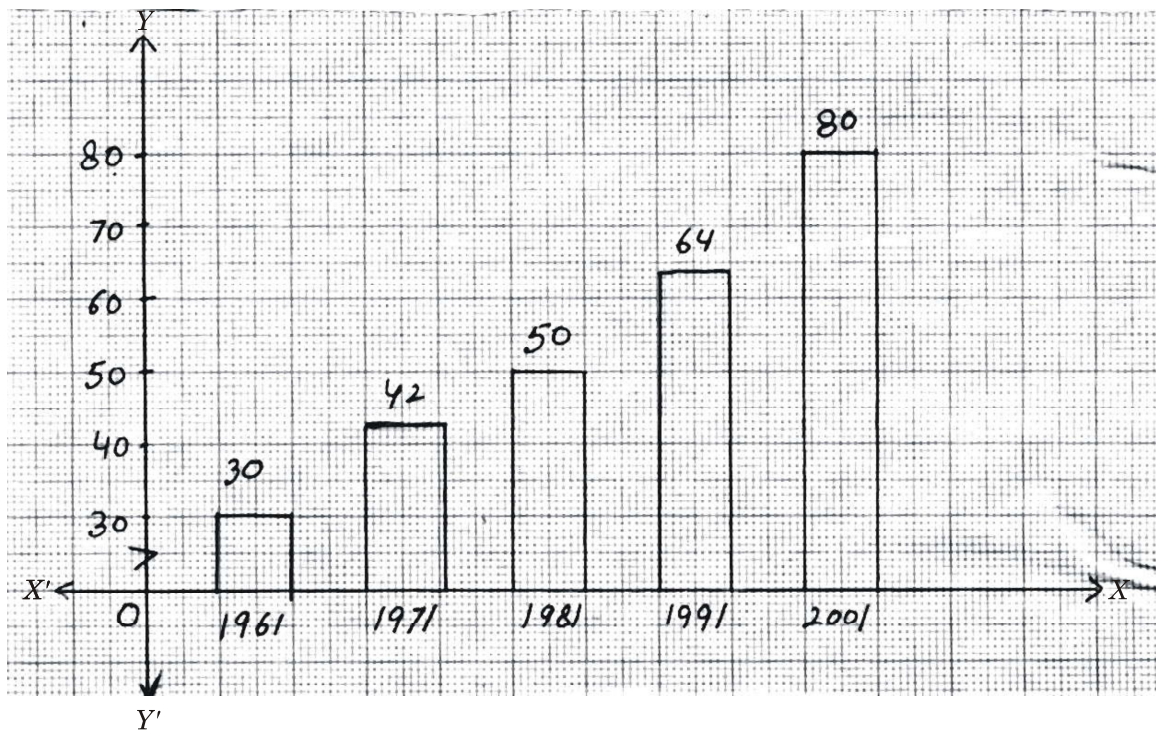


CHAPTER 5

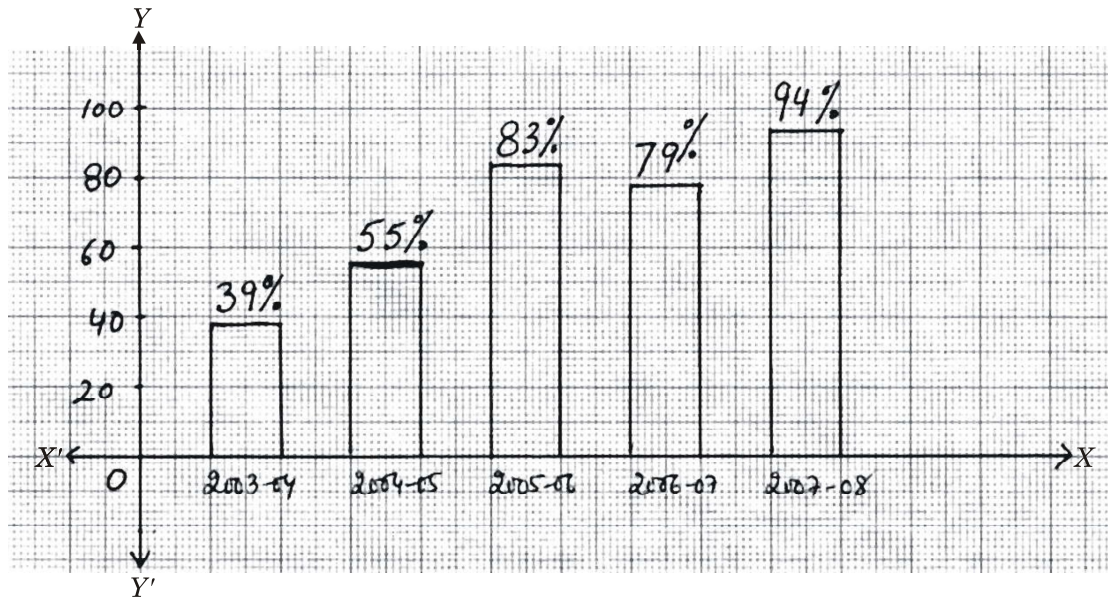
DATA HANDLING

QUESTIONS

1. The following bar graph shows the population of a country in various census (in crores). In which year there was maximum and minimum population?



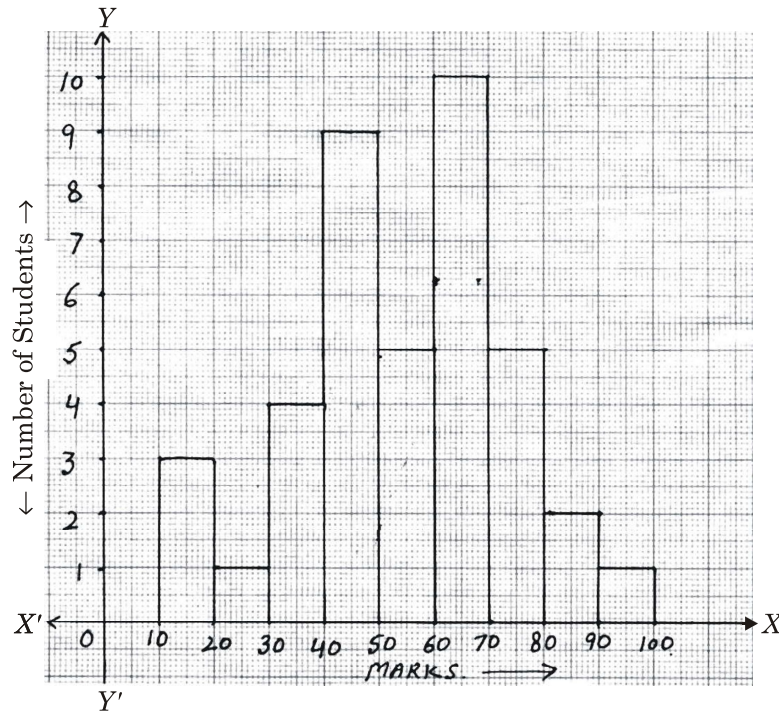
2. The following bar graph shows the result of class XII of a school.



Answer the following questions :

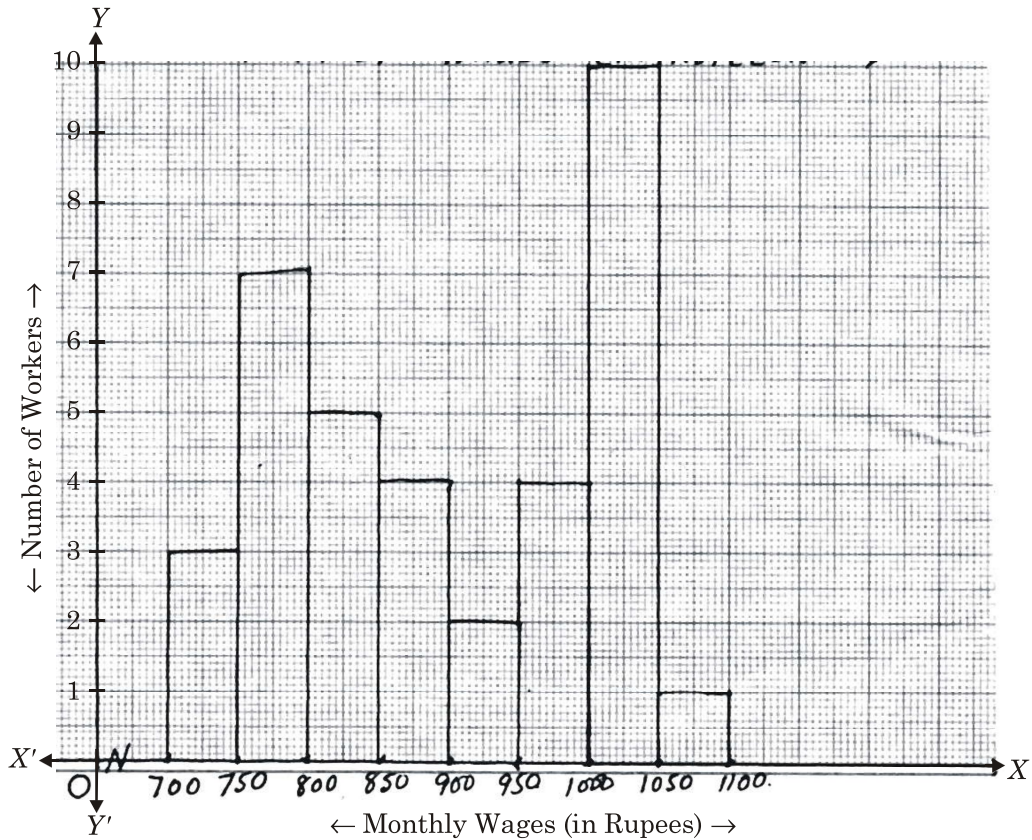
- In which year the increase in the result was maximum? In which year the result of Class XII falls?
- Can we say that the school's result is improving in all the years?

3. Read the following histogram and answer the question.



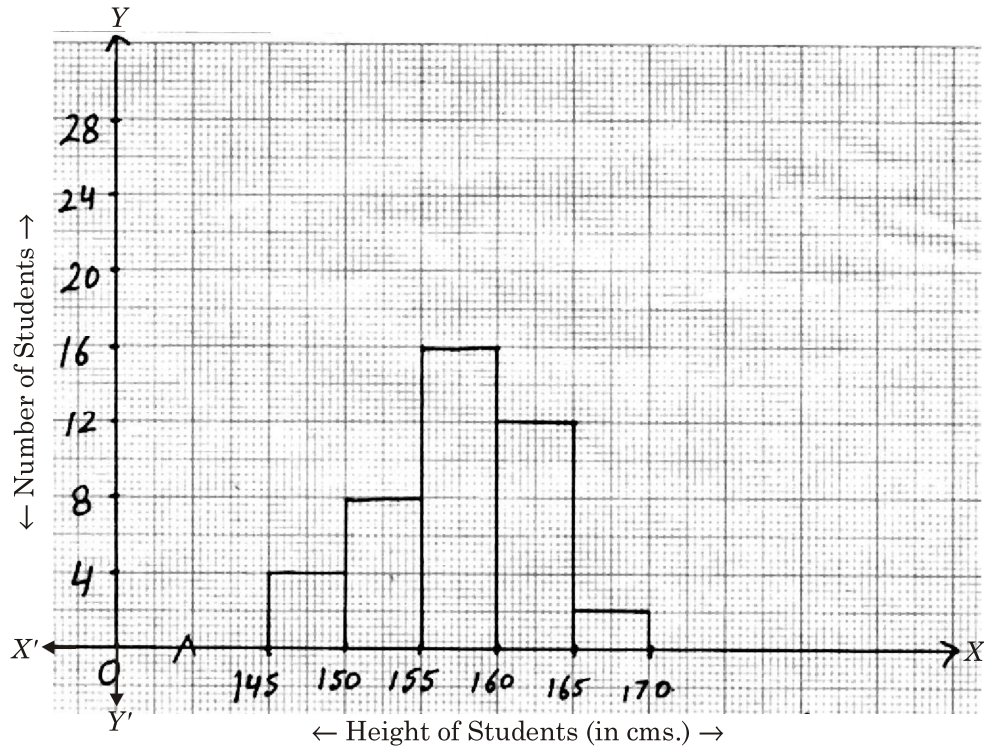
- (i) What is the number of students in the marks group of 50–60?
- (ii) In which group the number of students are maximum?
- (iii) In which two groups the number of students are the same?

4. The following histogram shows the weekly wages (in Rs.) of workers in a factory.



- (i) In which wage group are the largest number of workers being kept? What is their numbers?
- (ii) What is the amount which is received by the least number of workers?

5. The following histogram shows the height of 42 students in the class.



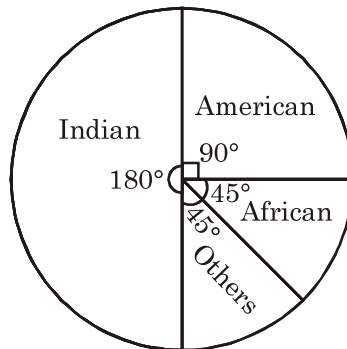
From the above histogram answer the following questions :

- (i) How many students are having height less than 155 cm?
- (ii) How many students have height equal to 160 or more?
- (iii) How many students having height less than 170 cm?

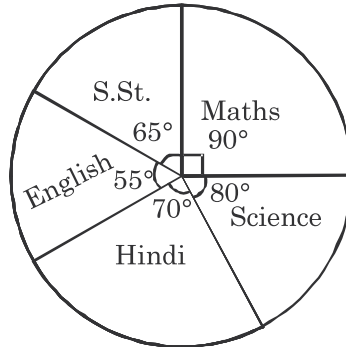
6. Complete the following :

The representation of statistical data by means of circle is known as _____.

7. The following pie chart depicts the percentage of students nationwide in a school. What is the percentage of Indian students nationwide?



8. The following pie chart depicts the marks scored in an examination by a student in different subjects.



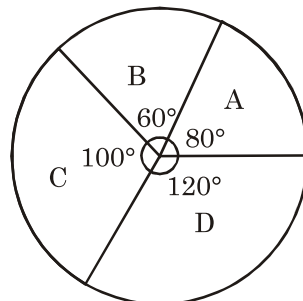
If the total marks obtained is 540. Which is greater?

- (i) Sum of marks obtained in Maths and Science?

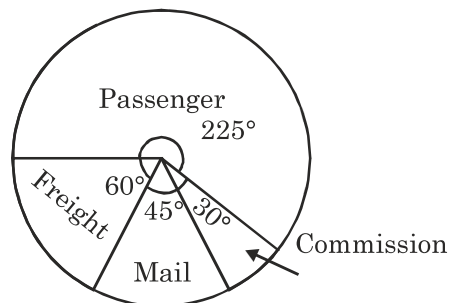
Or

- (ii) Sum of marks obtained in S.St. and Hindi?

9. The following pie chart represents the number of valid votes obtained by four candidates who contested an election for the post of chairman. The total number of valid votes polled was 720. What are the number of votes polled by the winning candidate?

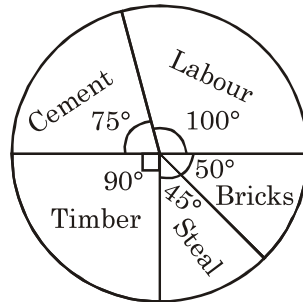


10. The following pie chart shows the sources of earning by a transport company.



What is the major source of earning of the transport company?

11. The following pie chart depicts the expenditure on different items at the time of construction of a flat.

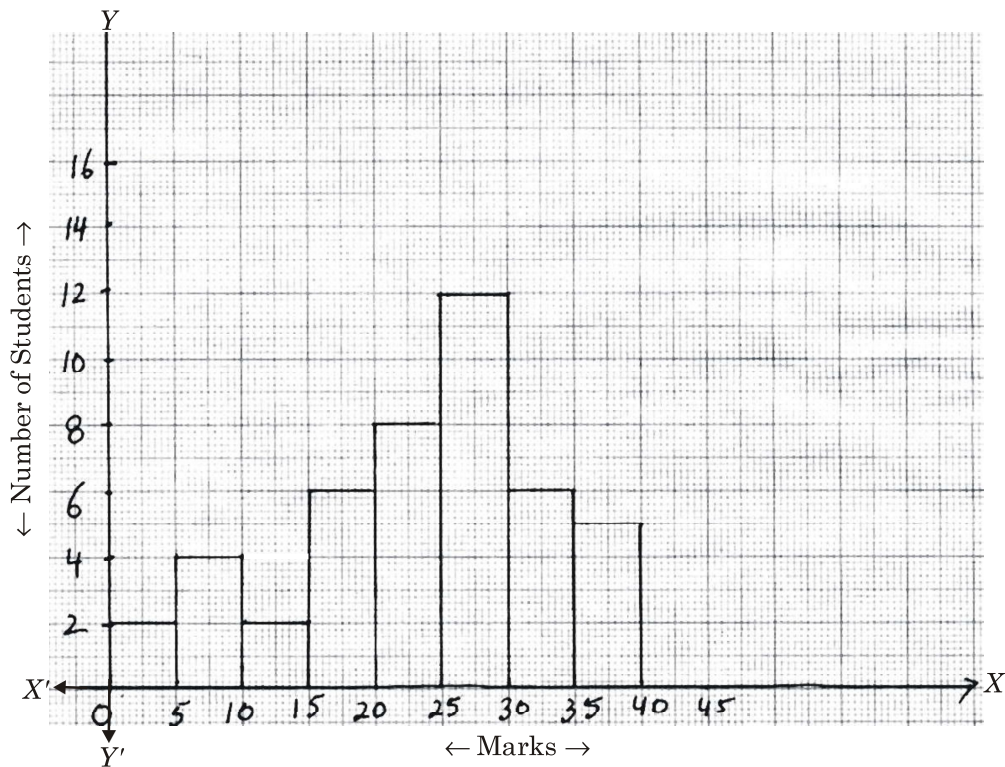


What is the difference of expenditure on timber and bricks if the total cost of construction is Rs. 81,000?

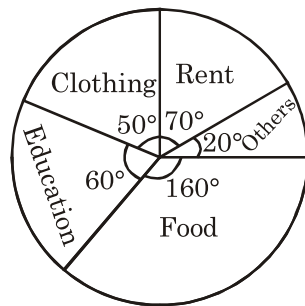
12. What is the total allocation of degrees in a pie chart?
13. Complete the following –
In pie chart we transform the data in terms of _____.
14. A coin is tossed twice. Find the probability of getting both tails?
15. Find the probability of getting even number between 10 to 25.
16. A die is thrown once. Find the probability of getting a prime number.
17. One card is drawn from a well shuffled deck of 52 cards. Find the probability of getting a face card.
18. What is the maximum value of the probability for an event?
19. A bag contains 9 red, 7 white and 4 black balls. A ball is drawn at random. Find the probability that the ball drawn is not red.
20. In the word “EDUCATION” find the probability of getting a vowel.
21. Out of 400 bulbs in a box, 15 bulbs are defective. One bulb is taken at random from the box. Find the probability that the bulb is not defective.
22. A die is thrown once. What is the probability of getting a multiple of 3.
23. A card is drawn from a pack of 52 cards. Find the probability of drawing a red face card.
24. A box contains 19 cards having numbers 1, 2, 3, 19. A card is drawn from the box. What is the probability that the number on the card is divisible by 5.
25. Three coins are tossed together. What are the total number of possible outcomes.
26. A letter of English alphabet is chosen at random. Find the probability that the letter chosen is a vowel.
27. A class has 40 students, 25 boys and 15 girls. A student of the class is selected at random as the monitor. Find the probability of selecting a girl student as the monitor.

TEST YOUR KNOWLEDGE

For Q. No. 1 to Q. No. 4 refer the following histogram depicting the marks obtained by 45 students of a class in Maths test.



1. How many students obtained 20 or more marks but less than 35?
2. How many students got less than 15 marks?
3. If a first division is equal to 25 or more marks, how many students obtained this division?
4. In which class-interval of marks the no. of students were maximum?
5. A die is thrown once. Find the probability of getting a number lying between 2 and 6.
6. Two unbiased coins are tossed simultaneously. Find the probability of getting no head.
7. A card is drawn from a well shuffled pack of 52 cards. Find the probability that the card drawn is a black king.



For Q. No. 8 to 10 refer the above pie chart which shows the monthly expenditure of a family. The family spends Rs. 3,600 per month on education.

8. What is the total monthly expenditure of the family?
9. How much they spend on food per month?
10. In comparison of education how much more money was spend by the family on rent?

ANSWERS

1. 26

2. 8

3. 23

4. 25–30

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

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

7. $\frac{1}{26}$

8. Rs. 21,600

9. Rs. 9,600

10. Rs. 600