

18. A number multiplied to itself gives _____ of the number.
19. In a parallelogram diagonals _____ each other.
20. A linear equation in one variable has _____ solution.

Match the following

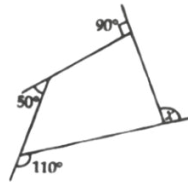
1x 4 = 4

- | | | |
|---|---|-----------|
| 21. The difference between the highest and lowest value of the given data is called | — | piechart |
| 22. It is the graphical representation of a grouped frequency distribution in the form of rectangles of equal width | — | histogram |
| 23. The representation of data and circle is called | — | bar graph |
| 24. The pictorial representation of data using bar of uniform width is called | — | Range |

SHORT ANSWER QUESTIONS

5 x 2 = 10

25. $12y - 7 = 9$
26. Find measure x in the following



27. When a die is thrown list the probabilities of
- Getting a prime number
 - Getting a number greater than 2
28. Find the square root of 1764 using prime factorisation
29. Find the smallest whole number by which it should be multiplied so as to get a perfect square number 252

Question 30-33 carries 3 marks each

30. Find a Pythagorean triplet whose one number is 14.
31. Find the square root of 7744 by long division method.

32. Construct quadrilateral PQRS where PQ=4cm QR=6cm RS=5cm PS=5.5
PR=7cm
33. Solve

$$\frac{x}{x + 15} = \frac{4}{9}$$

Question 34 carries 4 marks

34. Shoes of the following brands are sold in November 2017 at a shoe store.
Construct a pie chart for the data

Question 33 carries 5 marks

35. Case study
In a hypothetical sample of 20 people the amount of money (in thousands of rupees)
114, 108, 150, 98, 101, 109, 117, 119, 126, 131, 136, 143, 156, 169, 182,
195, 207, 219, 235, 118
1. Set frequency distribution table of the class interval 50 – 10.
 2. Draw a histogram .
 3. Which class interval has maximum frequency?
 4. What is the size of the class interval?
 5. The lower limit of the class interval 150-200 is _____.