



BURARI PUBLIC SCHOOL

a venture with **UNIQUE**

PT -4 ASSIGNMENT (2024-25)

CLASS: VIII

SUBJECT- MATHEMATICS

Date ___/___/___

Time: 1 hour

M.M.: 20

Name: Roll No..... T. sign.....

General instructions:

- All Questions are compulsory.
- Do neat and clean work.
- This Question paper has 4 sections A, B, C and D

Section -A ($\frac{1}{2} \times 4 = 2$ Marks)

1. If a coin is flipped in the air, what is the probability of getting a tail?
a) 0 b) $\frac{1}{2}$ c) 1 d) 2
2. The area of a rhombus whose diagonals are of lengths 10 cm and 8.2 cm is:
a) 41 cm^2 b) 82 cm^2 c) 410 cm^2 d) 820 cm^2
3. Assertion (A): The volume of a room is 80 m^3 . The area of the floor is 20 m^2 . The height of the room is 4m.

Reason (R): Volume is calculated by multiplying length x width x height

- a) Both A and R are true, and R is the correct explanation of A.
 - b) Both A and R are true, but R is not the correct explanation of A
 - c) A is true but R is false
 - d) A is false but R is true.
4. Assertion (A): The measure of all the angles at the centre of the circle is 360° .
Reasons (R): If the information given in the bar graph is shown in a single circle, it is called a pie graph.
- a) Both A and R are true, and R is the correct explanation of A.
 - b) Both A and R are true, but R is not the correct explanation of A
 - c) A is true but R is false
 - d) A is false but R is true.

Section – B (Each question is of 2 Marks)

5. The table shows the color preferred by a group of people. Draw a pie chart showing the following information:

	Blue	Green	Red	Yellow	Total
Color					
Number of people	18	09	06	03	36

6. The area of a trapezium shaped field is 480 m^2 , the distance between two parallel sides is 15 m and one of the parallel sides is 20 m. Find the other parallel side.
7. A rectangular piece of paper $11 \text{ cm} \times 4 \text{ cm}$ is folded without overlapping to make a cylinder of height 4 cm. Find the volume of the cylinder.
8. A bag contains 4 red, 5 black and 6 white balls. A ball is drawn from the bag at random. Find the probability that the ball drawn is: (i) white, (ii) red.

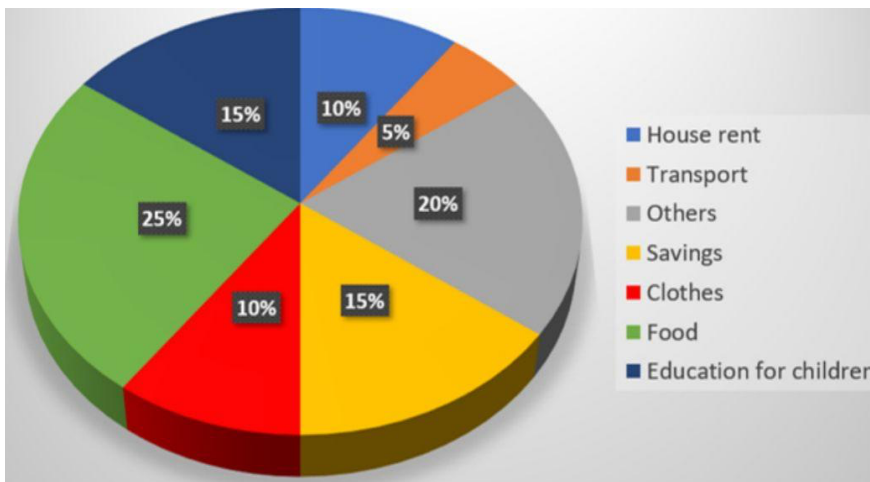
Section – C (Each question is of 3 Marks)

9. A die is thrown. Find the probability of getting:
- (i) a prime number
 - (ii) 2 or 4
 - (iii) a composite number.
10. A flooring tile is in the shape of a parallelogram with 24 cm base and the corresponding 10 cm height. Calculate the number of tiles required to cover a floor of area 1080 m^2 (If required you can split the tiles in whatever way you want to fill up the corners).

Section – D (Case Study – 4 Marks)

11. Read the text carefully and answer the questions:

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



- i. _____ shows the relationship between a whole and its parts.
- ii. On which item, the expenditure was maximum?
- iii. Expenditure on which item is equal to the total savings of the family?
- iv. If the monthly savings of the family is ₹ 3000, what is the monthly expenditure on clothes?