Chapter- 17

Perimeter and Area

WORKSHEET

A. FILL IN THE BLANKS:

1. The distance around a plane figure is called its _Perimeter._

2. A farmer who wants to fence his field, must find the _perimeter_ of the field.

3. Perimeter of a square with side 15 cm is _60 cm_.

4. Area of a rectangle with length 9 m and breadth 3 m is _27_ m².

5. The area of a square field with side 11 cm is _121_ sq. cm.

B. CHOOSE THE CORRECT ANSWER:

1. Area of a square is _____
   b) Product of all sides   b) sum of all sides   c) side × side   d) 2 × side

2. The area of a square is equal to the area of a rectangle of length = 8 cm and breadth = 2 cm. What is the side of the square?
   a) 6 cm   b) 4 cm   c) 3 cm   d) 8 cm

3. The breadth of a rectangle is increased by 2 cm. Its perimeter is now increased by _____.
   a) 2 cm   b) 4 cm   c) 8 cm   d) 16 cm

4. _____ is the length of a rectangle whose area is 72 m² and breadth is 9 m.
   a) 6 m   b) 7 m   c) 8 m   d) 9 m

5. 1 square metre is the area of a square of side _____.
   a) 1 cm   b) 1 m   c) 1 mm   d) 1 km

C. SOLVE THE WORD PROBLEMS:

1. Vidya bought a tablecloth 4 m long and 3 m wide. She wanted to put lace around the tablecloth.

i. Find how many metres of lace is required?

ii. Find total cost of lace, if 1 metre costs ₹ 4.

Ans. i) length of Tablecloth = 4 m
Breadth of Table cloth = 3 m
lace required = $2(4+3) = 2 \times 7 = 14$ m

ii) Cost of 1 m of lace = ₹ 4

Total cost of 14 m of lace = 14 m × ₹ 4 = ₹ 56

Hence, the 14 m of lace is required and the total cost of lace is ₹ 56.

2. For the assertion (A) and reason (R) below, choose the correct alternative.

Assertion (A): Vidya needs to find the perimeter to put lace around the tablecloth.

Reason(R): It is not possible to put lace on the surface of the tablecloth.

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.

Ans. A and R are True and R is the correct explanation of A because she can't put the lace in the surface.