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 _areas_ 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 _side x side_

   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 _4 cm_.

   a) 2 cm   b) 4 cm   c) 8 cm   d) 16 cm

4. _8 m_ 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 _1 cm_.

   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. Length of the tablecloth = 4m

Breath of the tablecloth = 3 m

Lace needed = Perimeter = $2 \times (l + b)$

$= 2 \times (4 + 3)$

$= 2 \times 7 = 14$ m

Vidya needs 14m lace

Cost of 1m of lace = ₹4

Cost of 14 of lace = $14 \times 4 = ₹56$

∴ Vidya will need 14m of lace ot ₹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.