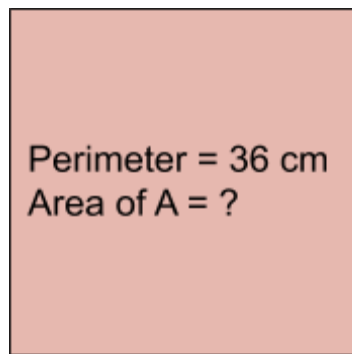# Area of Squares

FREE Worksheet - 3

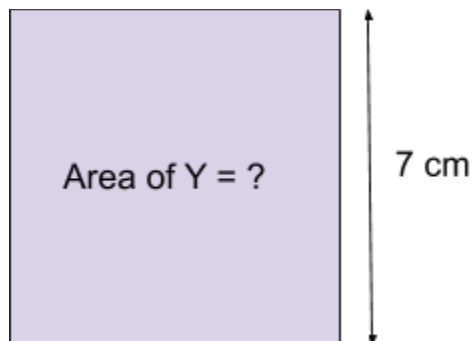**Time: 15 minutes**

(Detailed solutions at the end)

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1. The perimeter of Square A is 36 cm. Find its area.

Perimeter = 36 cm
Area of A = ?

   a. 25 cm^2 b. 36 cm^2
   c. 16 cm^2 d. 81 cm^2

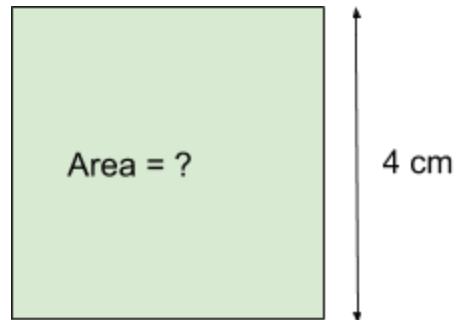2. The length of Square Y is 7 cm. Find its area.

Area of Y = ?

7 cm

   a. 25 cm^2 b. 36 cm^2
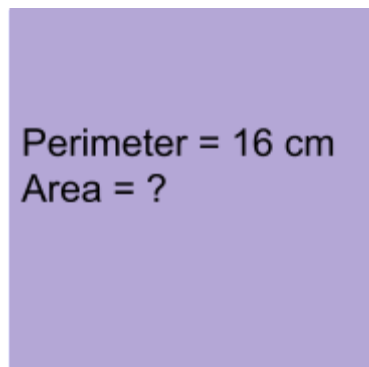   c. 49 cm^2 d. 81 cm^2

3. Find the area of the square below:

Area = ?

4 cm

 a. 25 cm^2 b. 36 cm^2
 c. 16 cm^2 d. 81 cm^2

4. Find the area of the square below:

Perimeter = 16 cm
Area = ?

 b. 25 cm^2 b. 16 cm^2
 c. 36 cm^2 d. 81 cm^2

5. The perimeter of a square tile is 28 cm. Find its area.

    c. 25 cm^2 b. 16 cm^2

    c. 36 cm^2 d. 49 cm^2

SOLUTIONS

Problem 1

Perimeter of a square = 4 × Length

Length = Perimeter ÷ 4

Given, perimeter = 36 cm

Therefore, length = 36 cm ÷ 4 = 9 cm

Area of a square = Length × Length

Given, length = 9 cm

Therefore, Area = 9 cm × 9 cm = **81 cm²**

Problem 2

Area of a square = Length × Length

Given, length = 7 cm

Therefore, area = 7 cm × 7 cm = **49 cm²**

Problem 3

Area of a square = Length × Length

Given, length = 4 cm

Therefore, area = 4 cm × 4 cm = **16 cm^2**

Problem 4

Perimeter of a square = 4 × Length

Length = Perimeter ÷ 4

Given, perimeter = 16 cm

Therefore, length = 16 cm ÷ 4 = 4 cm

Area of a square = Length × Length

Given, length = 4 cm

Therefore, Area = 4 cm × 4 cm = **16 cm^2**

Problem 5

Perimeter of the square tile = 4 × Length

Length = Perimeter ÷ 4

Given, perimeter = 28 cm

Therefore, length = 28 cm ÷ 4 = 7 cm

Area of the square tile = Length × Length

Given, length = 7 cm

Therefore, Area = 7 cm × 7 cm = **49 cm²**