



Worksheet

Grade 7 - Mathematics

Chapter 13 - Perimeter and Area

A. Choose the correct option.

1) The base and altitude of a triangle are both 4 cm. Its area is _____.

- a) 16 cm^2 b) 8 cm^2 c) 4 cm^2 d) 18 cm^2

2) If the side of a square is doubled, its area will:

- a) double b) become 4 times c) become 8 times d) remain the same

3) If the length of a rectangle is doubled and breadth halved, its area will:

- a) double b) become 4 times c) become 8 times d) remain the same

4) The formula for circumference of a circle with radius r is _____.

- a) $2\pi r$ b) $2\pi r^2$ c) πr^2 d) πr

5) Which of these is the largest unit?

- a) hg b) dg c) cg d) dag

B. Fill in the blanks.

1) $1 \text{ sq.cm.} =$ _____ sq.mm.

2) $1 \text{ sq.m.} =$ _____ sq.cm.

3) A square has an area of 121 sq. cm. Its side is _____.

4) The area of a triangle with base a and altitude b is _____.

5) The area of a parallelogram is given by base u corresponding _____.

C. Answer the following questions.

1. Find the perimeter of the following shapes.

- a) A square with side 41 cm.
- b) A square with side 55 cm.
- c) A rectangle with length 15 cm, breadth 8 cm
- d) A rectangle with length 22 cm, breadth 10 cm
- e) A scalene triangle with sides 16 cm, 18 cm and 20 cm
- f) A right-angled triangle with hypotenuse 15 cm and legs 9 cm, 12 cm.
- g) A circle with diameter 42 cm

D. Fill in the blanks.

1) Find the area of the rectangle with:

a) $l = 3\text{ cm}$; $b = 9\text{ cm}$

b) $l = 15\text{ cm}$; $b = 7\text{ cm}$

c) $l = 12\text{ cm}$; $b = 13\text{ cm}$

2) Find the area of the square with:

a) $s = 20\text{ cm}$

b) $s = 17\text{ cm}$

c) $s = 18\text{ cm}$

3) Find the area of the parallelogram with:

a) $b = 21\text{ cm}$; $h = 4\text{ cm}$

b) $b = 7.5\text{ cm}$; $h = 6\text{ cm}$

c) $b = 16\text{ cm}$; $h = 5\text{ cm}$

4) Find the area of the triangle with:

a) $b = 5\text{ cm}$; $h = 2.5\text{ cm}$

b) $b = 12\text{ cm}$; $h = 8\text{ cm}$

c) $b = 18\text{ cm}$; $h = 11\text{ cm}$

5) Find the area of the circle with:

a) $r = 21\text{ cm}$

b) $r = 63\text{ cm}$

c) $r = 35\text{ cm}$

C. Answer the following questions.

- 1) A rectangular picture of length 30 cm and breadth 25 cm has a frame of width 1 cm around it. Find the length and the area of the frame.
- 2) A circular disc of radius 7 cm has a hole of radius 3.5 cm at the centre. Find the area of the disc.
- 3) A garden has a length and breadth of 24 m and 16 m respectively. Find the cost of fencing it on all four sides at the rate of `250 per metre.

- 4) The floor of a room has a length and breadth of 12 m and 10 m. How many tiles of size 20 cm u 10 cm will be required to cover the floor?
- 5) A blackboard

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