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Ain Jaloot School
2020-2021



Chapter 15

Perimeter and Area

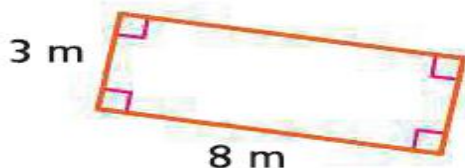




LESSON 1 ... Perimeter (P) المحيط الخارجي

(الهدف) Outcomes: find the distance around the shape (+)

Example: Find the perimeter:



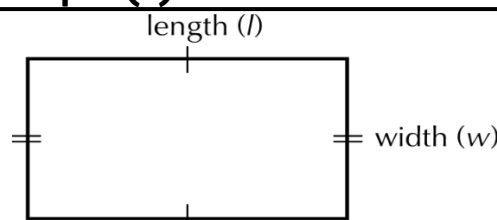
$$P = L + W + L + W$$

$$8 + 3 + 8 + 3 = 22m$$

$$P = (2 \times L) + (2 \times W)$$

Or $(2 \times 8) + (2 \times 3)$

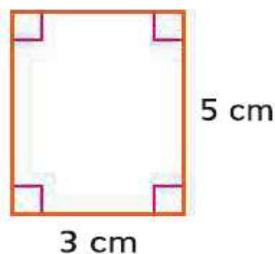
$$16 + 6 = 22m$$



$$P = l + w + l + w$$

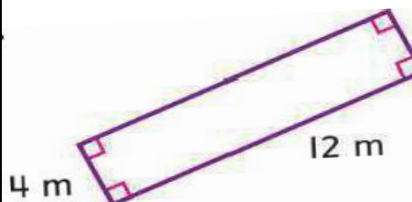
$$P = (2 \times l) + (2 \times w)$$

Q1 : Find the Perimeter :



$$P = L + W + L + W$$

$$5 + 3 + 5 + 3 = 16 \text{ cm}$$



$$P = L + W + L + W$$

$$12 + 4 + 12 + 4 = 32m$$

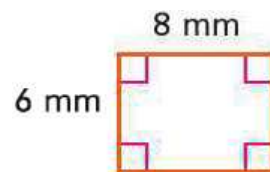
Q2 : Choose the correct answer :

2) The perimeter is :

a) 14 mm

b) 22 mm

c) 28 mm

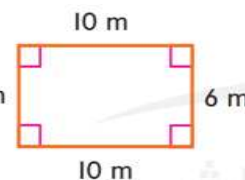


2) The unknown side length is :

a) 6 m

b) 10 m

c) 12 m



3) The perimeter in units is :

a) 16 unit

b) 20 unit

c) 22 unit

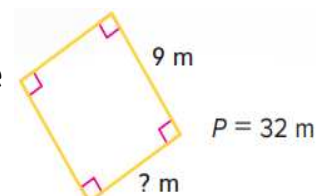


4) What is the measure of unknown side of rectangle

a) 5 m

b) 14 m

c) 7 m



5) A rectangle has a perimeter of 20 cm. One side measure

4 cm. What are the measures of the other three sides?

a) 4cm, 6cm, 6cm

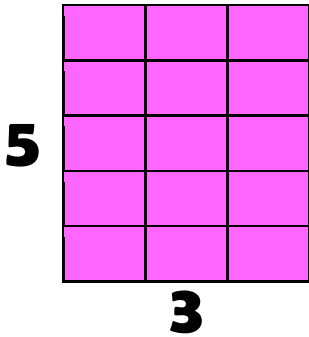
b) 4cm, 8cm, 6cm

c) 4cm, 5cm, 5cm

LESSON 4 ... Area (A) المساحة الداخلية

(الهدف) Outcomes: I can find the Area by law

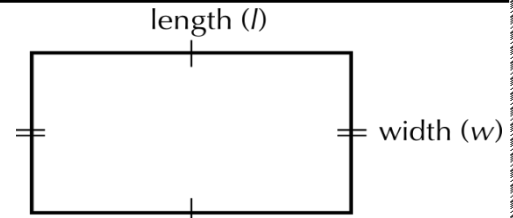
Example: Find the Area:



$$A = L \times W$$

$$A = 5 \times 3 = 15$$

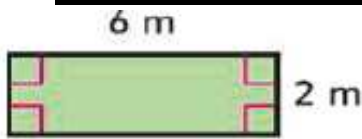
Count all the blocks
15 square units



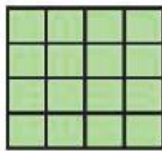
$$A = L \times W$$

A = Count all the blocks

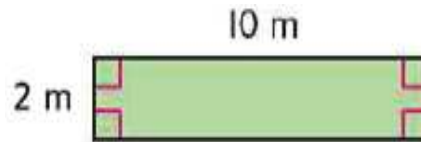
Q1 : Find the Area :



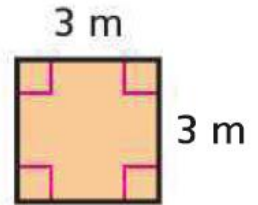
$$6 \times 2 = 12 \text{ m}^2$$



16 square unit

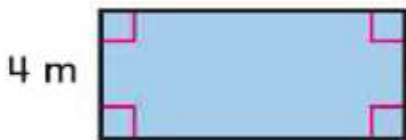


$$10 \times 2 = 20 \text{ m}^2$$



$$3 \times 3 = 9 \text{ m}^2$$

Q2 : Find the missing side :



$$4 \times 8 = 32 \text{ cm}^2$$



$$6 \times 4 = 24 \text{ cm}^2$$



$$7 \times 7 = 49 \text{ cm}^2$$

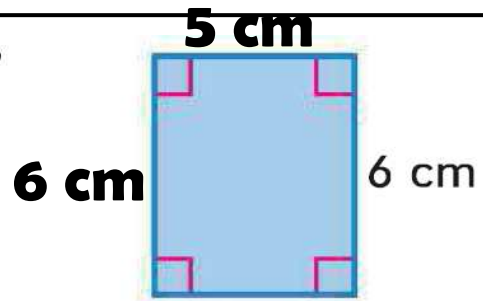
What is the perimeter of the rectangle?

- (A) 22 cm
- (B) 24 cm
- (C) 26 cm
- (D) 28 cm

$$P = L + W + L + W$$

$$P = 6 + 5 + 6 + 5$$

$$= 22 \text{ cm}$$



$$A = 30 \text{ cm}^2$$

$$6 \times 5 = 30 \text{ cm}^2$$

LESSON 5 ... Relate Area and Perimeter

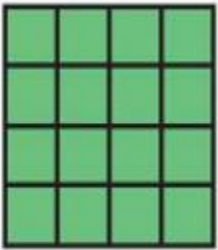
(الهدف) Outcomes: Find the perimeter and Area

Q1: List all possible dimensions of rectangles for each area :

1) 9 square units **1** X **9** , **9** X **1**..... , **3** X **3**.....

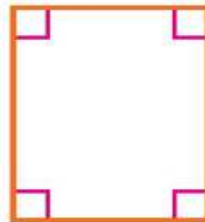
2) 18 square units **1** X **18** , **18** X **1**..... , **3** X **6** , **6** X **3**..... , **2** X **9** , **9** X **2**.....

Q2 : Find perimeter and Area of each square or rectangle :



$$P = 4 + 4 + 4 + 4 = 16 \text{ unit}$$

$$A = 4 \times 4 = 16 \text{ square unit}$$



5 cm

3 cm

$$P = 5 + 3 + 5 + 3 = 16 \text{ cm}$$

$$A = 5 \times 3 = 15 \text{ cm}^2$$

Q3 : Choose the correct answer :

A square has a perimeter of 28 m.

What is its area?

$$A = L \times W$$

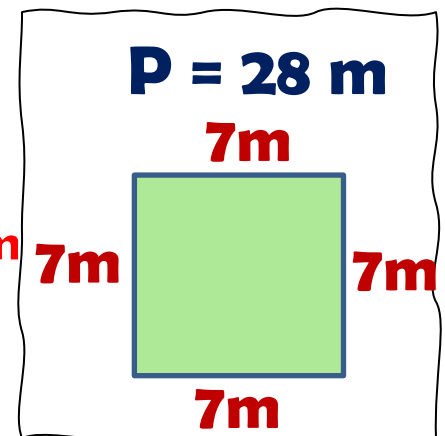
$$A = 7 \times 7 = 49 \text{ m}^2$$

(A) 45 m²

(C) 49 m²

(B) 48 m²

(D) 50 m²

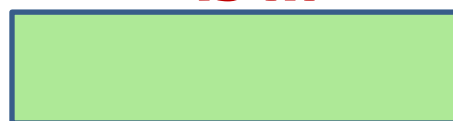


Q4 : Solve problem :

A rectangle has an area of 30 m² and a perimeter of 34 m. What are the dimensions of the rectangle?

$$A = 15 \times 2 = 30 \text{ m}^2$$

$$P = 15 + 2 + 15 + 2 = 34$$



2 m

15 m