ODM EDUCATIONAL GROUP
Changing your Tomorrow

MONTH : JANUARY

SESSION : 1

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 17

CHAPTER NAME : PERIMETER AND AREA

SUB-TOPIC : PERIMETER REVISION

EXERCISE 17 A Q.N0. 4 TO 8

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LEARNING OBJECTIVE :

Enable learners :

•To recall the previously learned terms and formulae of finding perimeter of square and rectangles.

PERIMETER

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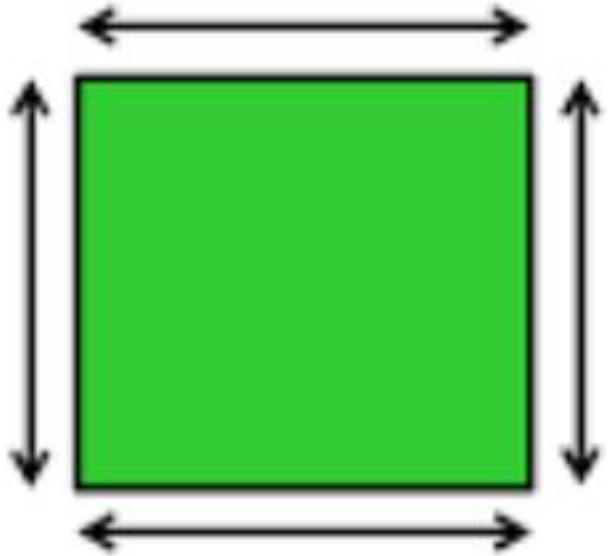
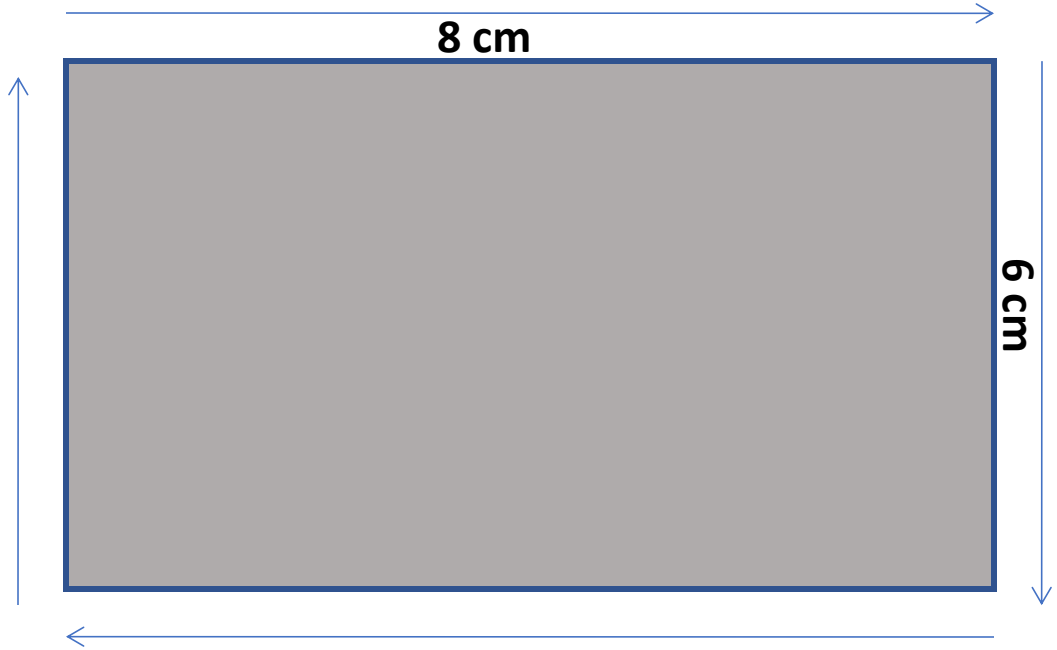
What is Perimeter?

The perimeter is the distance all the way around the outside of a 2D shape.



PERIMETER



Perimeter of this rectangle =

Length + length + breadth + breadth = 2 length + 2 breadth

= 2 (length + breadth) = 2 x (l + b) = 2 x (8 + 6) = 2 x 14 = 28 cm

PERIMETER

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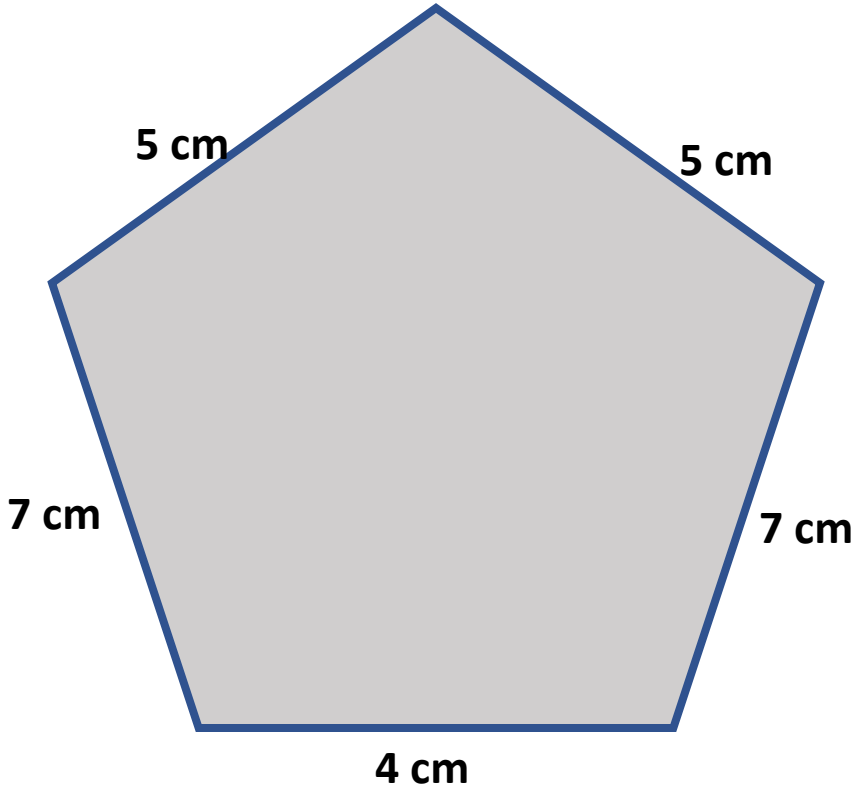
5 cm

Perimeter of a square = side + side + side + side = 4 x side

= 4 x 5 = 20 cm

PERIMETER



Perimeter of this fig = 5 cm + 5 cm+ 7 cm + 7 cm + 4 cm = 28 cm

Perimeter of any irregular shape is the sum of its sides

EXERCISE 17 A

4 . The length of a rectangular field is three times the breadth. If the breadth is $3\frac{1}{2}$ m , find the perimeter.

Breadth = $3\frac{1}{2}$ m = $\frac{7}{2}$ m

Length = three times of breadth = $\frac{7}{2}$ X 3 = $\frac{21}{2}$ m

Perimeter = 2 x l + b = 2 x($\frac{7}{2}$ + $\frac{21}{2}$)

= 2 x $\frac{28}{2}$ **= 28 m**

∴ the perimeter of the rectangular field is 28 m.

EXERCISE 17 A

5 . The breadth of a rectangular garden is 6 m less than its length. If the length is 30 m , find the perimeter.

Length of the garden = 30 m

Breadth = 6 cm less than length = 30 – 6 = 24 m

Perimeter = 2 x (l + b) = 2 x (30 + 24)

= 2 x 54 = **108 m**

∴ **the perimeter of the rectangular garden is 108 m.**

EXERCISE 17 A

6 . The length of a square field is 35 m. what distance will a man walk in going around it 3 times?

Length of the garden = 35 m

Perimeter = 4 x side = 4 x 35 = 140 m

The man covers 140 m in one round.

Distance he'll cover in three rounds = 3 x 140 = **420 m**

∴ the man will cover 420 m in three rounds. .

EXERCISE 17 A

7. Sonu bought a tablecloth 2.25 m long and 1.75 m wide . She wanted to put lace around it. How many metres lace would she has to buy? Also find out how much would the lace cost if it costs ₹ 14. 50 per metre.

Length of the tablecloth = 2 . 25 m

Wide / breadth of the tablecloth = 1.57 m

Lace needed = Perimeter = 2 x (l +b) = 2 x (2. 25 + 1.75) = 2 x 4 m = **8 m**

Sonu needs 8m lace.

Cost of 1 m of lace = ₹14. 50

Cost of 8 m of lace = 8 x 14.50 = **₹ 116**

∴ **Sonu will need 8 m of lace of ₹116.**

EXERCISE 17 A

8. Akash covers 48 m while going around a square field twice. Find the side of the square. How much wire will be required for fencing around it once. Find the cost of wire if one metre costs ₹ 1. 75.

Distance covered while going twice around a square field = 48 m

Distance covered going around ones $= \frac{48}{2}$ = 24 m

So, perimeter is 24 m .

Side of the square field = $\frac{24}{4}$ **= 6 m**

Cost of 1 m of wire = ₹1 .75

Cost of 24 m of lace = 24 x 14.50 = **₹ 42**

∴ The side of the square field is 6 m and 24 m of wire is needed at a cost of ₹42 for fencing around it once.

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Students are able:

- **To recall the previously learned terms and formulae of finding perimeter of square and rectangles.**

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Complete Exercise 17 A Q.no. 1 to 3 in the copy.

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THANKING YOU

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