

Name: _____ Grade & Section: _____

Objective: Finds the perimeter of triangles, squares, rectangles, parallelograms, and trapezoids

Let's have a brief study first on what is a perimeter!



Image 1

is the distance all the way around the outside of a shape

Formula of a Perimeter in a Triangle

Equilateral Triangle	Isosceles Triangle	Scalene Triangle
$P = 3l$	$P = 2l + b$	$P = a + b + c$

Image 2

Formula of a Perimeter for a Square

Since it is square
all sides are equal in length
Perimeter (P) = $a+a+a+a$

$$P = a+a+a+a$$

Example:
if $a = 3$ units then
Perimeter (P) = $3+3+3+3=12$ units

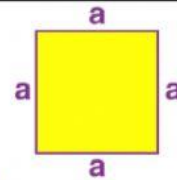


Image 3

Formula for a Perimeter of a Rectangle

Diagram of a rectangle with length = 5cm and width = 3cm.

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

Formula: $P = 2l + 2w$

$P = 2(5\text{cm}) + 2(3\text{cm})$

$P = 10\text{cm} + 6\text{cm}$

Image 4

Formula of a Perimeter of a Parallelogram

Diagram of a parallelogram with side lengths 16 and 20.

$P = 2w + 2l$ Perimeter of a parallelogram.

$= 2(16) + 2(20)$ Substitute 16 for w and 20 for l.

$= 32 + 40 = 72$ units

image 5

Formula of a perimeter of a Trapezoid

Diagram of a trapezoid with side lengths 3m, 4m, 3m, and 5m.

Find the perimeter:

Perimeter = sum of all of the sides

Perimeter = $3 + 4 + 3 + 5$

Perimeter = $7 + 8$

Perimeter = 15

Step 1: Find the lengths of all of the sides.

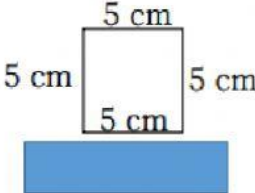
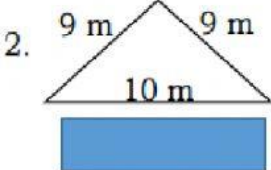
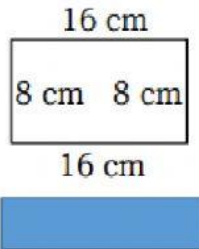
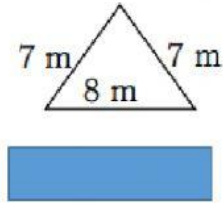
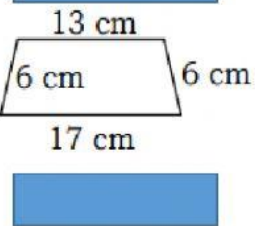
Step 2: Add.

Step 3: Write the units.

image 6

Let's Find out how deep is your understanding about our lesson by answering the following!

Direction: Find the Perimeter of each figure.

1. 
2. 
3. 
4. 
5. 

B. Direction: Read each problem carefully. Then solve for the perimeter. Choose the letter of the correct answer. Write answer on the box provided.

1. It is a Christmas Holiday and Rona wants to put a lights around the TV. Look at the measurements. What length of lights does she need?



- A. 800 cm B. 1000 cm C. 700 cm D. 900 cm

2. One side of an equilateral triangular park measures 20m. What is the perimeter of a triangular park?



- A. 20 m B. 40 m C. 60 m D. 30 m

- ☐ 3. Jonel enclosed his vegetable garden with a fence. The four sides of the garden measures 10, 15, 17 and 9 meters. How long will be the fence?
A. 25 m B. 32 m C. 42 m D. 51 m
- ☐ 4. One side of a square playground of Bacon West Central School in Sorsogon City, measures 35 meters. How many meters of chicken wire are needed to enclose the playground?
A. 70 m B. 105 m C. 140 m D. 175 m
- ☐ 5. Josel bought a lot whose sides measure 23 m, 18 m, 23 m, and 18 m. What is the perimeter of the lot he bought?
A. 82 m B. 75 m C. 54 m d. 41 m

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