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!**

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1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25
```
*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 = 3.l | P = 2.l + b | P = a + b + c |
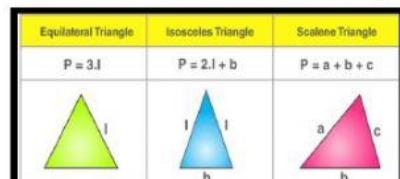
*Image 2*

**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

a  a  a  a

*Image 3*
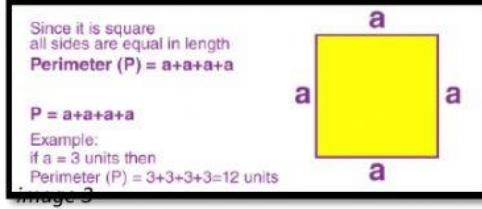
**Formula for a Perimeter of a Rectangle**

5cm
3cm   3cm
5cm
length = 5cm
width = 3cm

P = 5cm + 3cm + 5cm + 3cm = (16cm)
Formula: P = 2l + 2w
P = 2(5cm) + 2(3cm)
P = 10cm + 6cm

*Image 4*

**Formula of a Perimeter of a Parallelogram**

16
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*
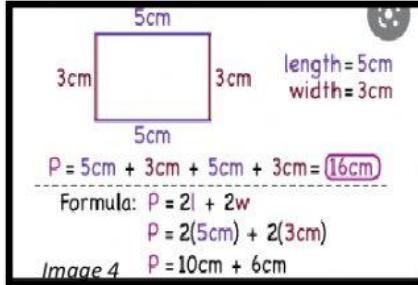
**Formula of a perimeter of a Trapezoid**

3 m
4 m   3 m
5 m

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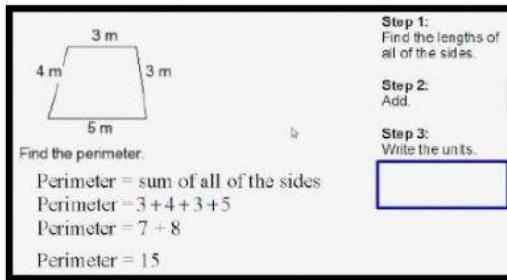
**Let's Find out how deep is your understanding about our lesson by answering the following!**

**Direction: Find the Perimeter of each figure.**

1.
5 cm
5 cm    5 cm
5 cm

2.
9 m    9 m
10 m

3.
16 cm
8 cm    8 cm
16 cm

4.
7 m    7 m
8 m

5.
13 cm
6 cm    6 cm
17 cm
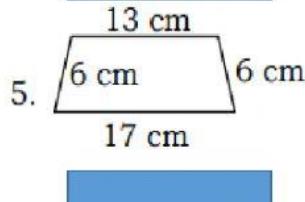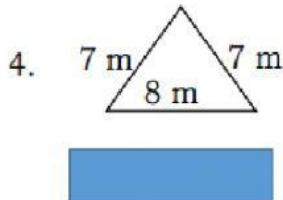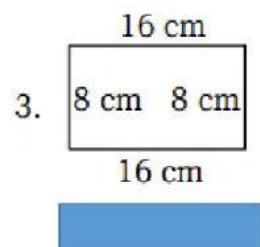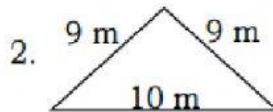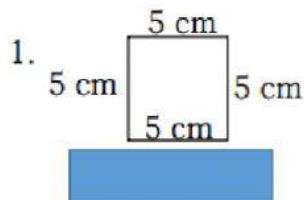
**B. Direction: Read each problem carefully. Then solve for the perimeter. Choose the letter of the correct answer. Write answer on the box provided.**

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?

300cm
200cm    200cm
300cm

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

Prepared by:
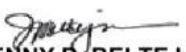
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