

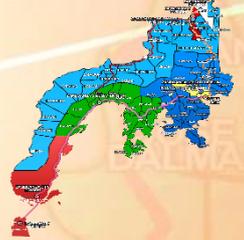


Republic of the Philippines
Department of Education
 Regional Office IX, Zamboanga Peninsula



- JANUARY**
Matuguhon
- FEBRUARY**
Mahiguimaon
- MARCH**
Matinabungan
- APRIL**
Matinahuron
- MAY**
Makapsay og Malimpyo
- JUNE**
*Maablik og Masunod sa
Dhasakong Oras*
- JULY**
Maantigo og Maabilidad
- AUGUST**
*Maginhuhuhunon
para sa Uban*
- SEPTEMBER**
Madaginaton
- OCTOBER**
Matinud-anon
- NOVEMBER**
Masaligan
- DECEMBER**
Maalampon

4



Zest for Progress
 Zeal of Partnership

Mathematics

Quarter 3 - Module 6

Visualizing, Measuring And Finding Perimeter



Name of Learner: _____

Grade & Section: _____

Name of School: _____



What I Need to Know

The module contains three lessons:

- Lesson 1-Visualizing the perimeter of any given plane figure in different situations.
- Lesson 2- Measuring the perimeter of any plane figure using appropriate tools.
- Lesson 3- Finding the perimeter of triangles, squares, rectangles, parallelograms and trapezoids.

After going through this module, you are expected to:

- Visualize the perimeter of any given plane figure in different situations.
- Measure the perimeter of any plane figure using appropriate tools.
- Find the perimeter of triangles, squares, rectangles, parallelograms and trapezoids.



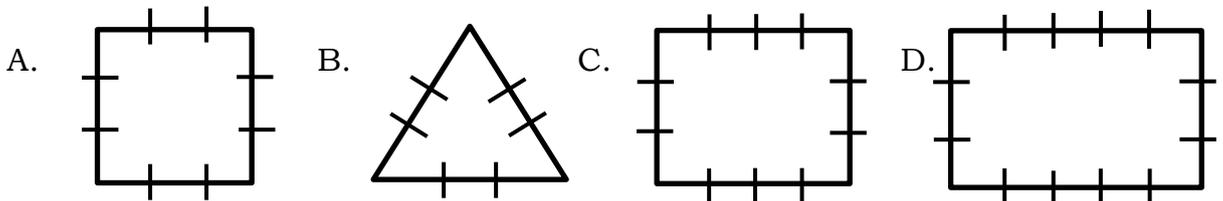
What I Know

Find out how much you already know about this lesson.

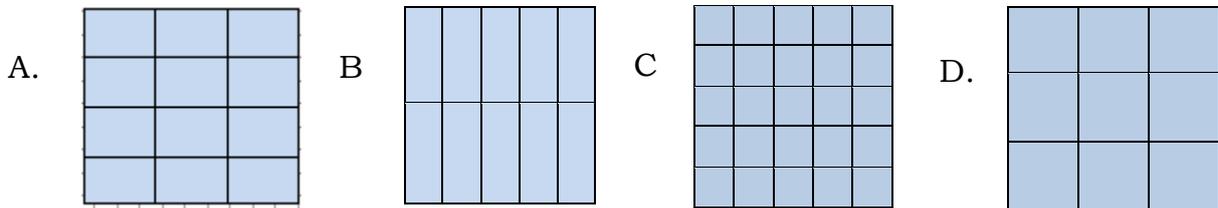
Directions: Encircle the letter of the correct answer.

1. Which shows the correct line partition of the given perimeter?

Total Perimeter is 12 units



2. Which illustration shows 20 units to determine the perimeter?



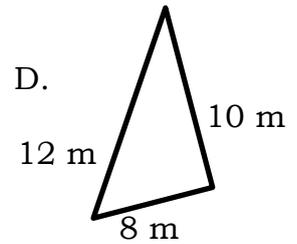
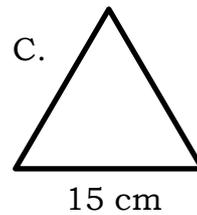
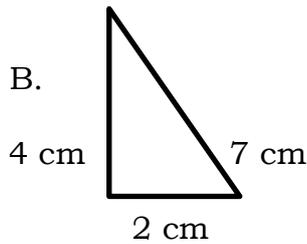
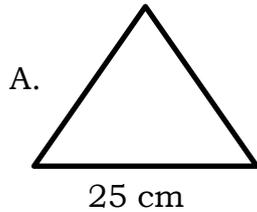
3. John's house measures 14 m length and 8 m width. What is the total measurement of his house?

- A. 24 m B. 34 m C. 44 m D. 54 m

4. What measuring tool is best to measure the length of a classroom?

- A. meter stick B. ruler C. protractor D. compass

5. Kevin bought a triangular kite that has a perimeter of 45 cm. Which of the figure shows the measurements of a kite?



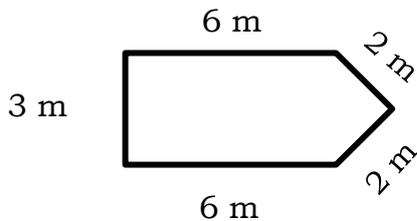
6. A boy scout neckerchief has 3 sides with a perimeter of 90 cm. What is measurement of each side?

- a. 30 cm. b. 48 cm c. 60 cm d. 90 cm

7. What is the formula in finding the perimeter of a triangle?

- a. $P = S \times S$ b. $P = S_1 + S_2 + S_3$ c. $P = 2L + 2W$ d. $P = S_1 + S_2 + S_3 + S_4$

8. Find the perimeter of the given figure.



- a. 13 m b. 16 m c. 19 m d. 21 m

9. If one side of the square is 7cm. What is the perimeter?

- a. 7 cm b. 14 cm c. 21 cm d. 28 cm

10. What is the perimeter of a rectangle if the length is 30 cm and the width is 20?

- a. 100 cm b. 120 cm c. 150 cm d. 180 cm



What's In

Activity 1: Solve Me.

Directions: Answer the given equation.

1. $6 + 4 =$ _____
2. $5 \times 10 =$ _____
3. $14 + 12 =$ _____
4. $3 \times 25 =$ _____
5. $16 + 15 + 20 =$ _____

Activity 2: Guess Me. What am I?

Directions: Choose the correct answer in the box that describes each sentence.

1. I have 4 equal sides and 4 right angles. _____
2. I have numbers that measures the length of a cloth. _____
3. I have 2 pairs of parallel sides and 4 right angles. _____
4. I have two pairs of parallel sides. _____
5. I have 3 sides and 3 angles. _____

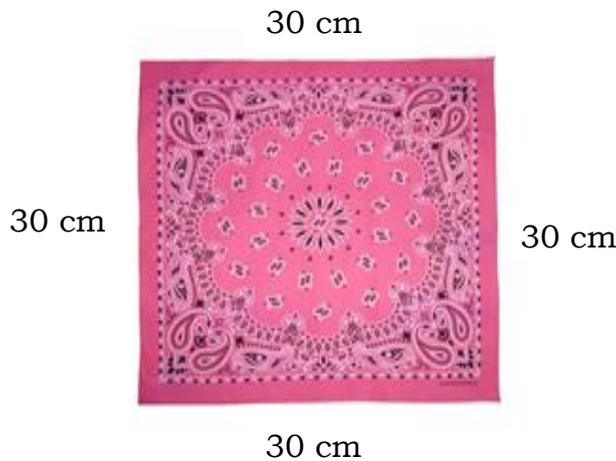
Triangle	Square	Meters stick
Ruler	Rectangle	Parallelogram



What's New

Read the story problem.

Tina bought a square handkerchief. Each side measures 30 cm long. Tina wants to find out the length of each side of her handkerchief. How can she do this?



What is it

To solve the problem, let us get the measurement of each side.

- There are 30 units in each side.
- There are four sides in a square handkerchief.

Solution:

Add all sides to get the perimeter of the square handkerchief.

Thus, $30\text{cm} + 30\text{cm} + 30\text{cm} + 30\text{cm} = \underline{120\text{ cm}}$

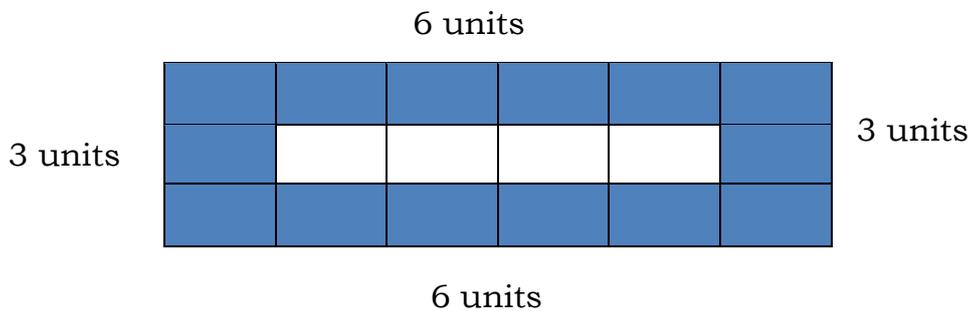
Perimeter means the sum of the measures of all sides of a plane figure or polygon. It is the distance around a polygon. If the polygons are: triangle, octagon, nonagon, and decagon, the perimeter is obtained **by adding all sides**.

Example of showing the number of units.

Jenny, has rectangular table. It measures 6 units long and 3 units wide. What is the perimeter of her table?

Another way: $P(\text{rectangle}) = (2 \times W) + (2 \times L)$

Where, P stands for perimeter; W, width; and L, length. The above formula is applicable only to rectangle. To apply the above formula, consider the computation below.



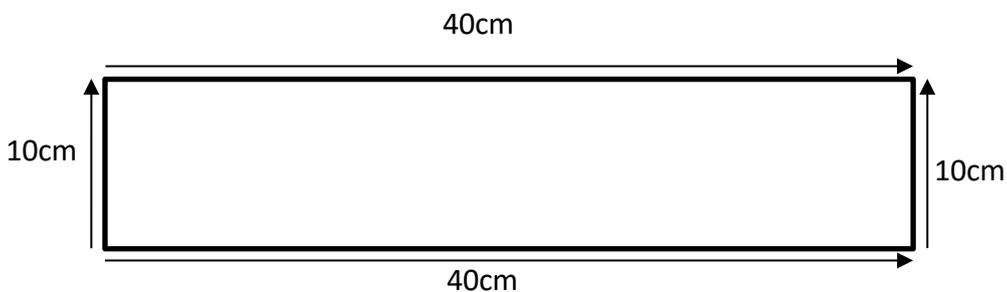
$$\begin{aligned}
 P &= (2 \times W) + (2 \times L) \\
 &= (2 \times 3) + (2 \times 6) \\
 &= 6 + 12 \\
 P &= 18 \text{ units}
 \end{aligned}$$

$$\begin{aligned}
 \text{Given: } L &= 6 \text{ units} \\
 W &= 3 \text{ units}
 \end{aligned}$$

Answer: The perimeter of her table is 18 units.

Perimeter is the distance around a shape or polygon.

Example of showing measurements of each sides.

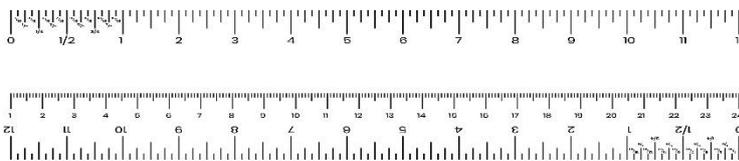


$$\begin{aligned}
 \text{Perimeter} &= 40 \text{ cm} + 40 \text{ cm} + 10 \text{ cm} + 10 \text{ cm} \\
 &= \mathbf{100 \text{ cm}}
 \end{aligned}$$

For us to get the perimeter of any figures we need to measure the length of the sides first.

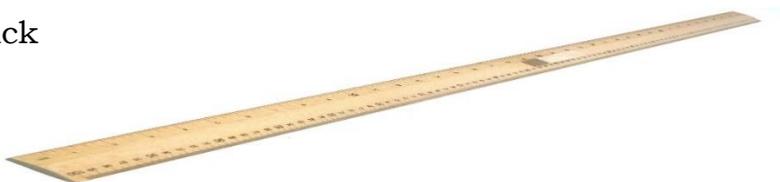
We can do this by using these mathematical tools.

1. Ruler (inch ruler or centimeter ruler)

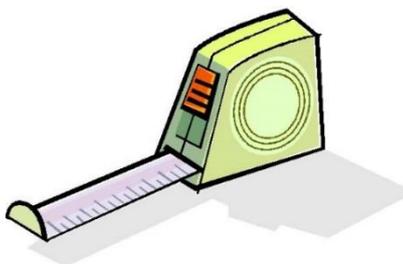


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2. Meter stick

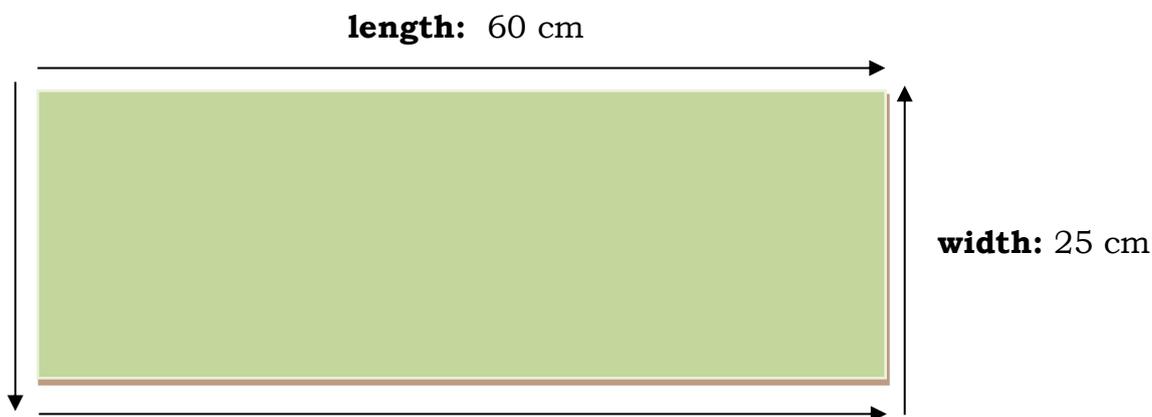


3. Measuring tape



Another example:

Let's Measure! It's Ana's flower garden.



To get perimeter you add all the measures of the sides.

$$\begin{aligned} \text{Perimeter} &= l + l + w + w \\ &= 60 \text{ cm} + 60 \text{ cm} + 25 \text{ cm} + 25 \text{ cm} \\ &= 120 \text{ cm} + 50 \text{ cm} \\ &= \mathbf{170 \text{ cm}} \end{aligned}$$

$$\begin{aligned} P &= (2 \times l) + (2 \times w) \\ &= (2 \times 60) + (2 \times 25) \\ &= 120 \text{ cm} + 50 \text{ cm} \\ &= \mathbf{170 \text{ cm}} \end{aligned}$$

So, the perimeter of Ana's flower garden is **170 cm**.

Bear in mind in measuring an object.

We can use inch and centimeter rulers on small objects.
For larger objects, we can use meter sticks or a measuring tape.
For long distances, we use miles and kilometer to measure.

You can abbreviate these measurements:

Inches	(in.)	Centimeter	(cm)
Foot	(ft.)	Meter	(m)
Mile	(mi.)	Kilometer	(km)

This chart will help you in finding the perimeter

Figure	Name	Formula in finding its perimeter
	Square	$P= S \times 4$ or $P=S_1+S_2+S_3+S_4$
	Rectangle	$P= 2l+2w$ or $P= (2 \times l) + (2 \times w)$
	Parallelogram	$P= a+a+b+b$ or $P= (2 \times a) + (2 \times b)$
	Triangle	$P= S_1+S_2+S_3$
	Trapezoid	$P= a+b+c+d$

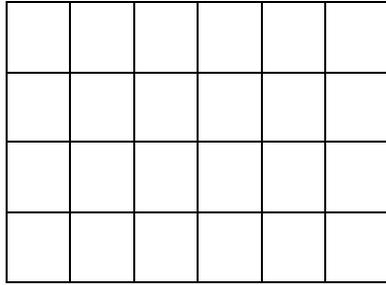


What's More

Activity 3: Count Me

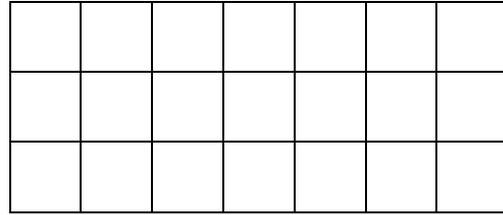
Directions: Count the number of units to determine the perimeter of each figure.

1.



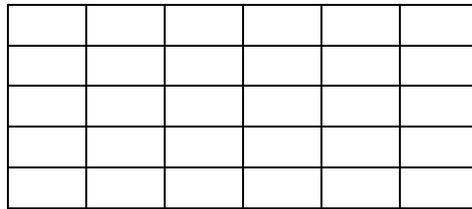
P= _____ units

2.



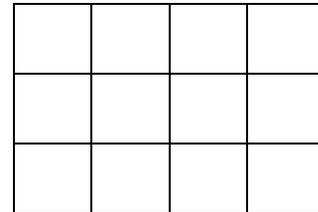
P= _____ units

3.



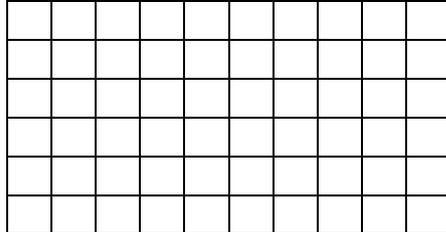
P= _____ units

4.



P= _____ units

5.



P= _____ units

Activity 4: Choose Me

Directions: Write the measuring tool appropriate to the given objects. Choose your answer from the box.

measuring tape	meter stick	protractor	ruler
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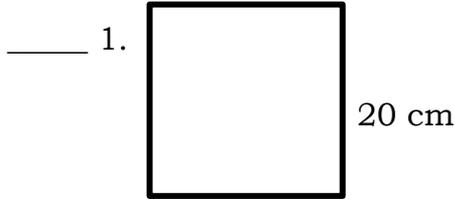
1. black board- _____
2. laptop- _____
3. length of school building - _____
4. handkerchief - _____
5. picture frame- _____

Activity 5: Match Me.

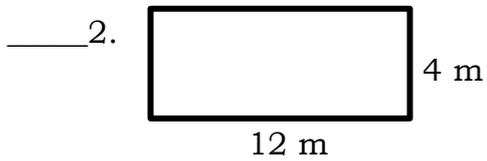
Directions: Match column A with column B by finding the perimeter of figure. Write the letter of your answer on the blank provided before the number.

Column A

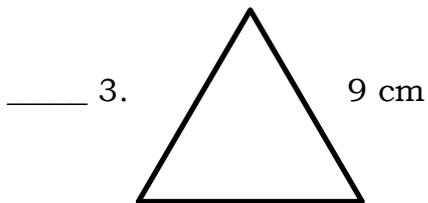
Column B



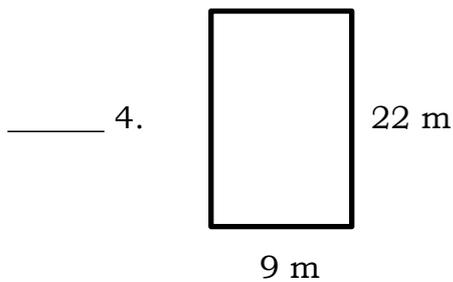
A. 32 m



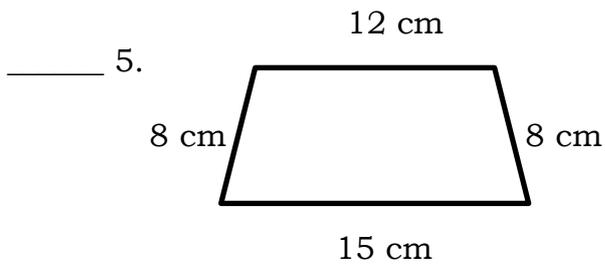
B. 80 cm



C. 43 cm



D. 62 m



E. 27 cm

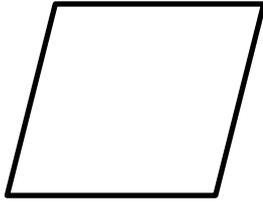


What I Have Learned

Activity 6: Show Me.

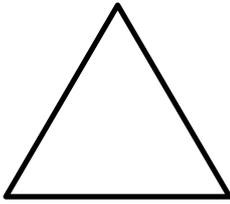
Directions: Show the perimeter of each figure by drawing line partitions.

1.



P= 16 units

2.



P= 9 units

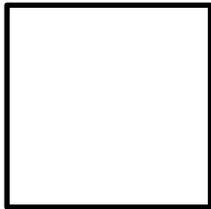
4.

3.



P= 12 units

4.



P= 8 units

5.



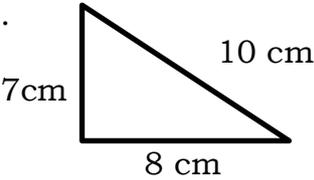
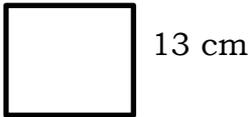
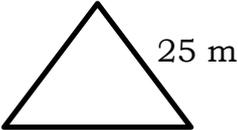
P= 18 units

Activity 7: Complete Me**Directions:** Complete the table.

Objects	Draw and write the measurements	Perimeter
1. Television		
2. Refrigerator		
3. Paper		
4. Book		
5. Table		

Activity 8: Find Me

Directions: Find the formula and perimeter of each figure.

	Formula	Perimeter
1. 	_____	_____
2. 	_____	_____
3. 	_____	_____
4. 	_____	_____
5. 	_____	_____



What I Can Do

Activity 9: Draw Me:

Directions: Measure your house using the appropriate tool for measurements.

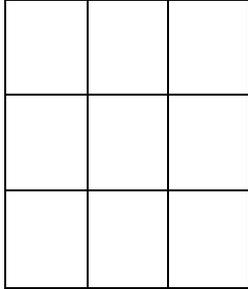
Draw your house inside the box with corresponding measurements of your house. Then find the perimeter.



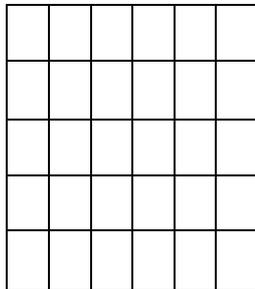
Assessment

Directions: Encircle the letter of the correct answer.

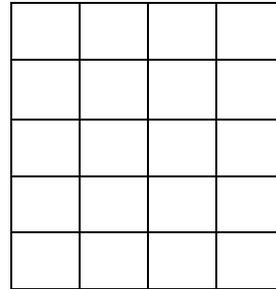
1. Which illustration shows 22 units of perimeter?



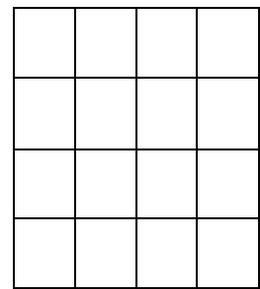
A.



B.

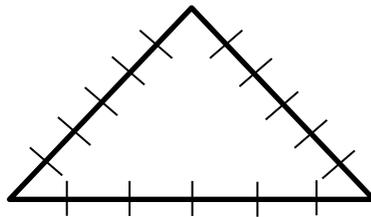


C.



D.

2. Using the scale of $\text{—|—} = 1\text{ cm}$ find the perimeter of the given figure by counting the distance around it.



A. $P = 12\text{ cm}$

B. $P = 14\text{ cm}$

C. $P = 16\text{ cm}$

D. $P = 18\text{ cm}$

3. What is the appropriate measuring tool is use to find the perimeter of a bond paper?

A. protractor

B. ruler

C. meter stick

D. measuring tape

4. If the total distance of a triangular tent of a girl's scout measures 9 meters, what is the measurement of each side?

A. 2 meters

B. 3 meters

C. 4 meters

D. 5 meters

5. A flower garden has a length of 350 cm and a width of 200 cm. What figure tells about the measurements?

A. square

B. triangle

C. rectangle

D. trapezoid

6. A rectangular table has a length of 75 cm, what is the width if the total measure is 200 cm?

A. 25 cm

b. 95 cm

c. 150 cm

d. 275 cm

7. What is the formula to find the perimeter of a square?

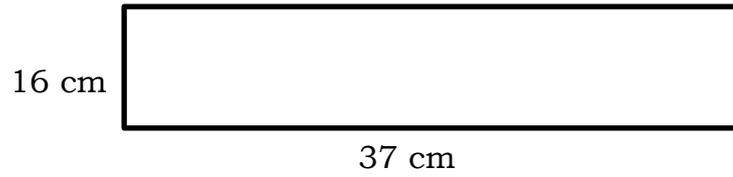
A. $P = S_1 + S_2 + S_3$

B. $P = S \times 4$ or $P = S_1 + S_2 + S_3 + S_4$

C. $P = l + l + w + w$ or $P = (2 \times l) + (2 \times w)$

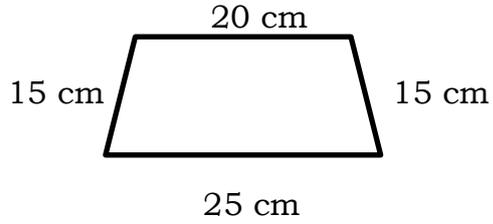
D. $P = a + b + c + d$

8. What is the perimeter of the given figure?



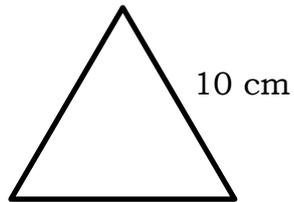
- A. 53 cm B. 90 cm C. 106 cm D. 173 cm

9. Compute the perimeter.



- A. 60 cm B. 65 cm C. 70 cm D. 75 cm.

10. Find the perimeter.



- A. 10 cm B. 20 cm C. 30 cm D. 40 cm



Additional Activities

Activity 10: Follow me

Follow the directions.

1. Draw a trapezoid.
2. Measure its sides. Then write the measurements on its corresponding sides.
3. Write its formula to find the perimeter of the figure you drew.
4. Find the perimeter.



References:

Chingcuangco, Ofelia G., M.A. Ed *Soaring High with Mathematics 4*. edited by Fedirico C. Castillo, Ed. dQuezon City: Saint Matthews Publishing, 2019.

Chingcuangco, Ofelia G., M.A. Ed *Soaring High with Mathematics 4 Teachers Manual*. edited by Fedirico C. Castillo, Ed. dQuezon City: Saint Matthews Publishing, 2019.

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