4

DepED
DEPARTMENT OF EDUCATION

Learning Activity Sheet for Mathematics

Quarter 1

Week
3

DepED MATATAG
Bansang Makabata Batang Makabansa

BAGONG PILIPINAS

DEPARTMENT OF EDUCATION NCR

ONE NCR STRONGER TOGETHER

Learning Activity Sheet Mathematics Grade 4
Quarter 1: Week 3

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LEARNING ACTIVITY SHEET 1

Learning Area:	**Mathematics**	**Quarter:**	**1**
Week:	**3**	**Day:**	**1**
Lesson Title/ Topic:	**Perimeter of a Parallelogram**		
Name:		**Grade & Section:**	

Activity #1: WHAT FORMULA AM I?

Duration: 5 mins.

Instructions:

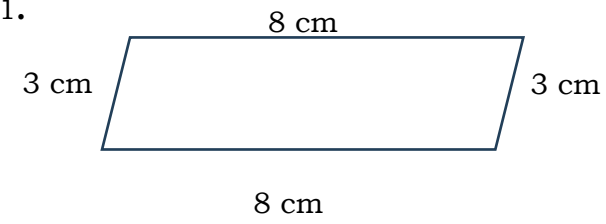
Begin by reviewing the concept of perimeter as the total distance around a shape.

Discuss what makes a shape a parallelogram: opposite sides are parallel and equal in length.

Ask learners to recall the formula for the perimeter of a parallelogram (P = 2 × (Length + Width)).

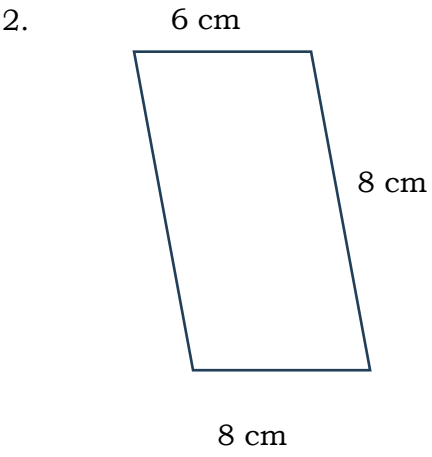
Activity: Study the figures carefully. Choose the letter of the correct formula/ number sentence to find the perimeter of the parallelograms and rhombus.

1.



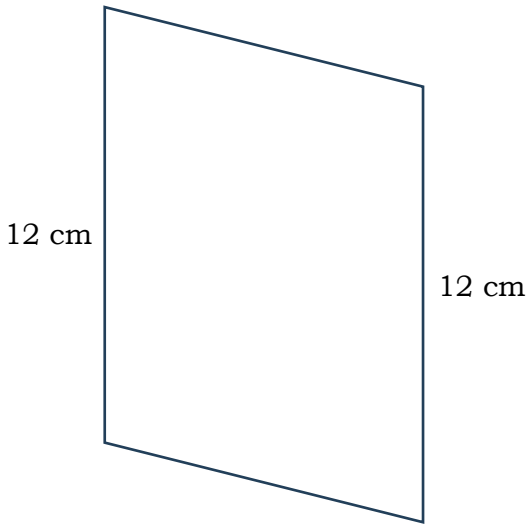
A. 8 cm + 8 cm + 3 cm + 3 cm = n
B. 8 cm + 8 cm + 8 cm + 8 cm = n
C. 3 cm + 3 cm + 3 cm + 3 cm = n
D. 8 cm + 3 cm + 3 cm + 3 cm = n

2.



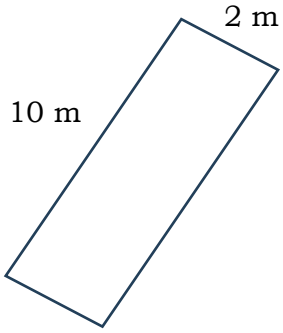
A. 2 + (6 cm x 8 cm) = n
B. 4 x (6 cm + 8 cm) = n
C. (2 x 6 cm) + (2 x 8 cm) = n
D. (2 + 6 cm) x (2 + 8 cm) = n

3.



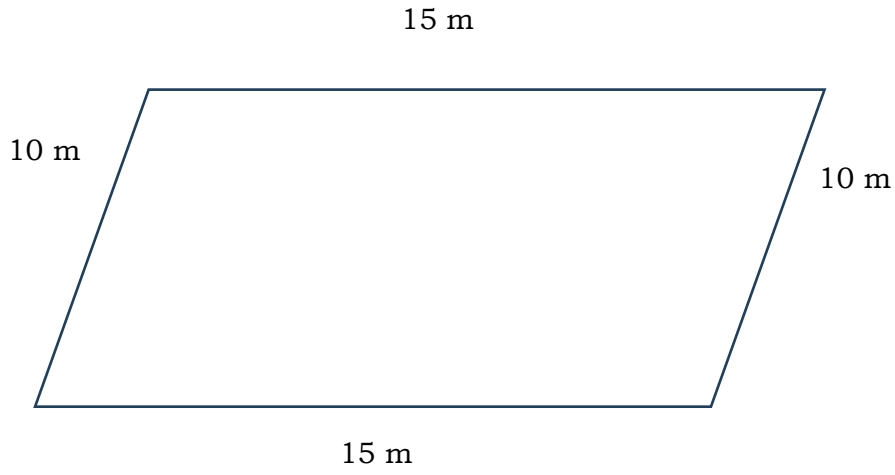
A. 2 x (12 cm) + 2 x (8 cm) = n
B. 2 + 12 cm + 2 + 8 cm = n
C. (8 cm x 12 cm) + (8 cm x 12 cm) = n
D. (8 cm + 12 cm) x 4 cm = n

4.



A. 2 cm + 2 cm + 2 cm + 2 cm = n
B. 2 cm x 10 cm = n
C. 10 cm + 10 cm + 2 cm + 2 cm = n
D. 10 cm x 2 cm = n

5.



A. 8 cm + 8 cm + 8 cm + 8 cm = n
B. 15 cm + 15 cm + 15 cm + 15 cm = n
C. 2 x (15 cm + 10 cm) = n
D. 10 cm + 10 cm + 10 cm + 10 cm = n

Tasks/Questions:

1. Were you able to find the correct formula for each figure?
2. What formula or number sentence did your group come up with?

Additional Resources:

Video: Discovering Perimeter Formulas of parallelogram
https://www.youtube.com/watch?v=gtMKsFXjLHw

Assessment/Reflection:

"Explain why the formula for the perimeter of a parallelogram makes sense based on the properties of parallelograms."

Activity # 2: SOLVE ME

Duration: 5 mins.

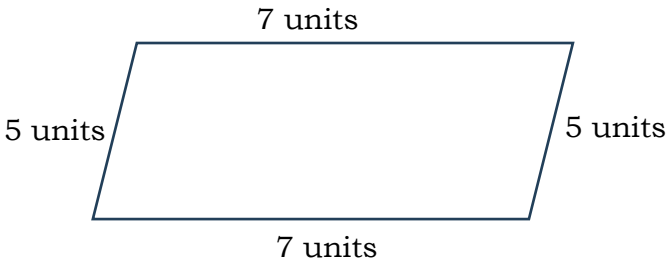
Instructions:

Step 1: Show an example using diagrams on the whiteboard.

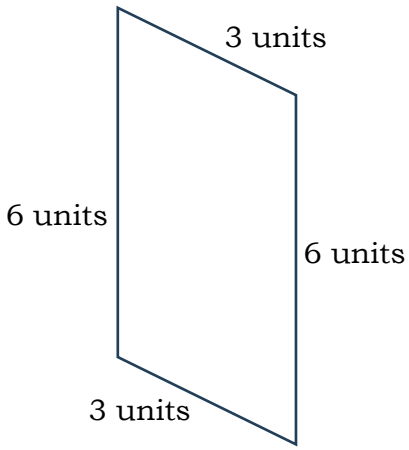
Activity: Study the figures below. Use the given side lengths to calculate its perimeter. Choose your answers inside the box below.

A. 18 units B. 28 units C. 24 units D. 14 units E. 38 units

1.



2.



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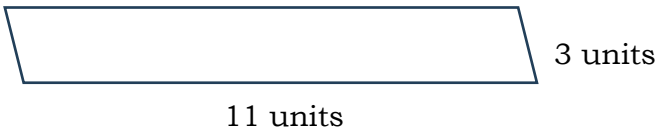
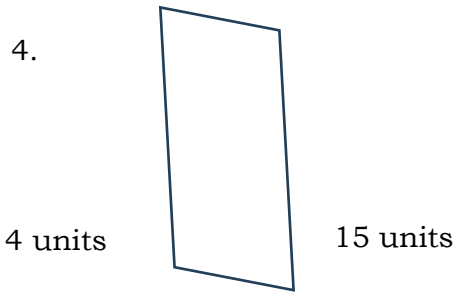
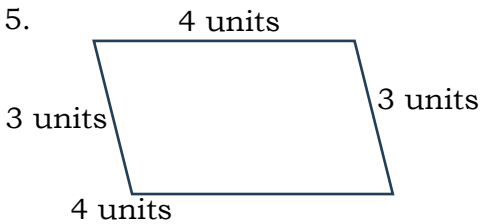


4.



5.



Tasks/Questions:

1. Were you able to answer all the items correctly?
2. How did you arrive at the correct answer?

Additional Resources:

Video: Calculating Perimeter of parallelogram
https://www.youtube.com/watch?v=b4E8KEHwz9E

Assessment/Reflection:

"What strategies did you use to calculate the perimeter?

How did you ensure your calculations were accurate?"

Activity # 3 COMPLETE ME

Duration: 5 mins.

Instruction: Complete the table below by finding the perimeter of the given object.

	Length	Width	Perimeter
1. A parallelogram tile	40 cm	25 cm	
2. Parallelogram table	6.5 m	4.5 m	
3. Parallelogram frame	75 cm	40 cm	
4. Parallelogram mirror	125 cm	50 cm	
5. A Parallelogram window	48 cm	24 cm	

Tasks/Questions:

1. Were you able to complete the table above?

2. What did you do to find the perimeter of each object?

Assessment/Reflection:

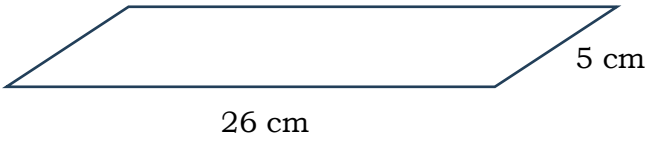
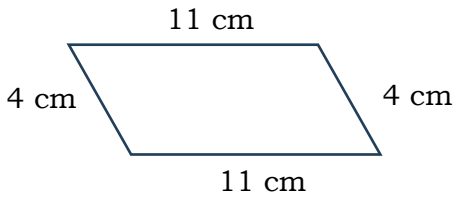
"What formula did you use to calculate the perimeter?

How did you ensure your calculations were accurate?"

Activity #4 MATCH ME

Duration: 5 mins.

Instruction: Match Column A with the correct perimeter in Column B . Write only the letter of the correct answer.

Column A	Column B
1. 21 cm + 21 cm + 18 cm + 18 cm = n	A. 30 cm
2. (2 x 13 cm) + (2 x 10 cm) = n	B. 26 m
3. 2 x (5 m + 8 m) = n	C. 78 cm
4. 	D. 62 cm
5. 	E. 46 cm

Tasks/Questions:

1. Was it easy for you to solve for the perimeter of a parallelogram?
2. What helps you in arriving at the correct answers?

Notes for Facilitators: Encourage learners to check their calculations and emphasize the importance of including the correct unit of measurement in the final answer.

Assessment/Reflection:

"What strategies did you use to calculate the perimeter?

How did you ensure your calculations were accurate?"

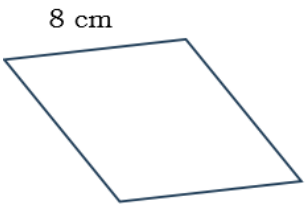
LEARNING ACTIVITY SHEET 2

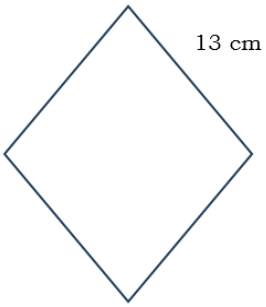
Learning Area:	**Mathematics**	**Quarter:**	**1**
Week:	**3**	**Day:**	**2**
Lesson Title/ Topic:	**Perimeter of a Rhombus**		
Name:		**Grade & Section:**	

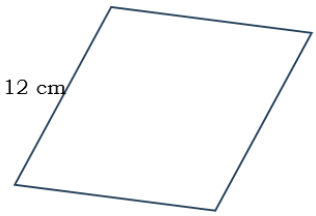
Activity # 5 FIND ME

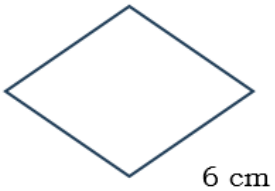
Duration: 5 mins.

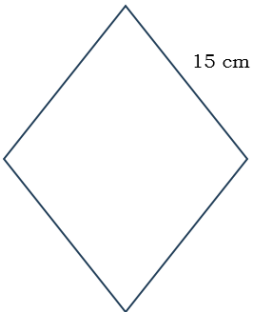
Instructions: Find the perimeter of the following rhombuses.

1. 

2. 

3. 

4. 

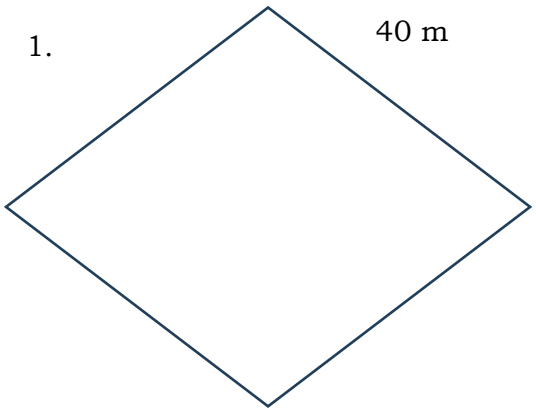
5. 

Activity # 6 ADD MORE

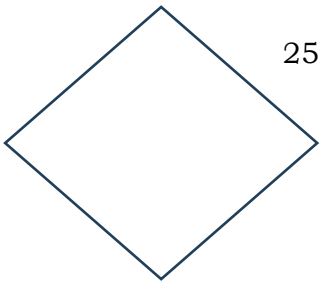
Duration: 5 mins.

Instructions: Add all the sides to find the perimeter of each rhombus. Show your solutions.

1.



2.



1. A rhombus study table has a side of 45 cm. What is its perimeter?
2. A window is in a rhombus shape having a side of 150 cm.
3. The side of a rhombus fan is 32 cm.

Tasks/Questions:

1. Were you able to add all the sides of the rhombuses correctly?
2. How did you arrive with the correct answer?

Assessment/Reflection:

"What strategies did you use to calculate the perimeter?

How did you ensure your calculations were accurate?"

Activity # 7 SOLVE ME MORE!

Duration: 10 mins.

Instructions: Read, analyze, and solve the problems below and choose the letter of the correct formula/ number sentence in finding the perimeter of the rhombus.

1. A park is in the shape of a rhombus. Each side measures 150 meters. What is the perimeter of the park?

2. A rhombus mat measures 75 cm. What is its perimeter?

3. A rhombus table cover measures 300 cm, what is the total distance around the table cover?

4. An agricultural garden is in the shape of a rhombus. The side measures 500 m. What is its perimeter?

5. A sling bag is in a rhombus shape, having a side of 50 cm, what is its perimeter?

Tasks/Questions:

1. Did you understand all problems given?
2. What did you observe with the given problems?
3. What type of quadrilateral are they?
4. Do they have the same formula in solving?

Assessment/Reflection:

"What helps you to understand all the problems clearly?

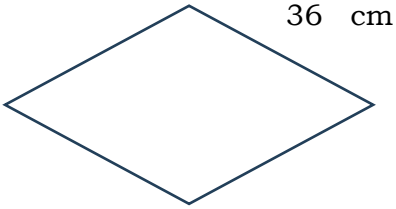
Were all the terms used from the given problems familiar to you?

Activity # 8 YOU CAN DO IT

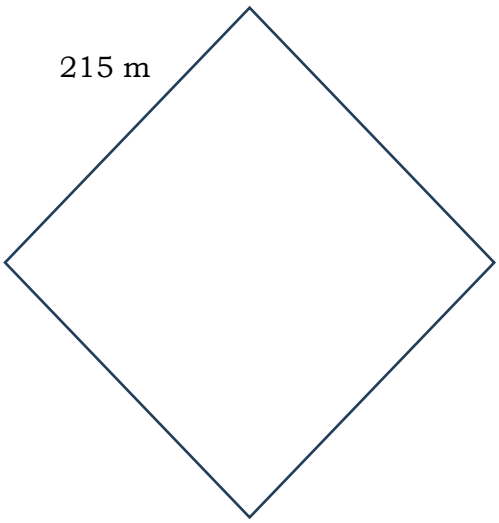
Duration: 10 mins.

Instructions: Study the following figures and problems below and solve for the perimeter. You can use any strategy, which you think is easier for you to arrive at the correct answers.

1. 36 cm



2. 215 m



3. A rhombus handkerchief measures 17 cm.

4. A rhombus tile has a side of 48 cm.

5. A rhombus pool has a length of 255 meters. What is its perimeter?

Tasks/Questions:

1. Were you able to answer all the given figures and problems correctly?
2. Do they have the same formula in solving?

Assessment/Reflection:

Was it easy for you to answer the activity?

LEARNING ACTIVITY SHEET 3

Learning Area:	Mathematics	Quarter:	1
Week:	3	Day:	3
Lesson Title/ Topic:	Perimeter of a Trapezoid		
Name:		Grade & Section:	

Activity # 9 LOOK FOR ME!

Duration: 5 mins.

Instructions: Search for the words that is related to TRAPEZOID

R	A	Z	X	I	M	V	V	B	T	A	Y	S	S	B
H	E	I	V	O	B	Y	G	W	R	G	K	U	H	W
R	W	T	S	E	S	A	B	L	A	O	F	B	F	M
R	H	C	E	J	K	H	Q	X	P	V	F	M	R	S
K	M	O	A	M	C	C	G	Y	E	F	P	O	H	K
C	L	S	M	U	I	A	Z	P	Z	D	N	H	L	G
P	V	T	L	B	E	R	H	C	O	M	W	R	M	L
P	V	E	Q	R	U	L	E	C	I	L	O	U	M	Q
V	G	K	A	I	S	S	J	P	D	C	Q	W	J	O
S	C	U	R	K	B	V	J	H	C	S	Z	P	P	L
Y	Q	P	A	R	A	L	L	E	L	O	G	R	A	M
S	V	D	C	Y	A	E	L	J	S	N	J	B	U	T
X	Q	Z	A	E	X	S	Y	N	I	N	M	K	K	K
U	O	N	E	Z	W	C	Z	P	Y	Y	T	I	Q	L
V	E	O	U	R	K	R	V	L	D	W	A	X	Q	Q

Tasks/Questions:

1. Were you able to look for the words related to Trapezoid?

Assessment/Reflection:

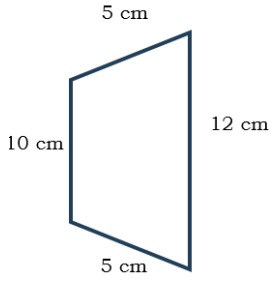
How did you ensure that all word were searched?"

Activity # 10 FIND ME

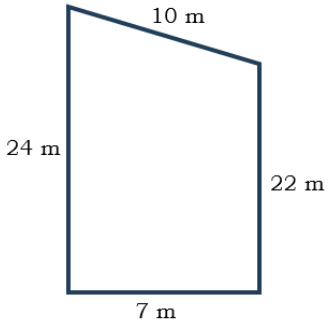
Duration: 10 mins.

Instructions: Find the perimeter of each trapezoid by adding all the sides.

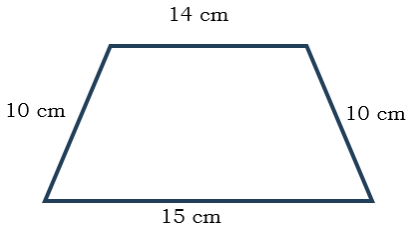
1.



2.



3.



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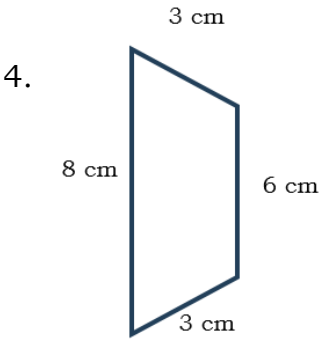
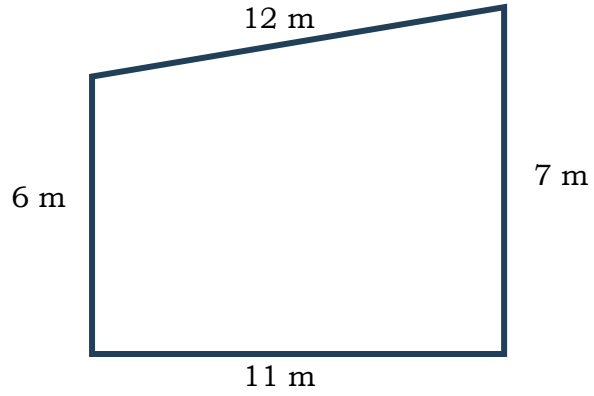


5.



Tasks/Questions:

1. Were you able to find the perimeters of all the figures given?
2. Did you use the same formula in solving?

Assessment/Reflection:

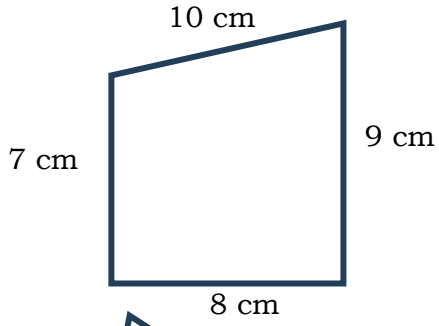
Was it easy for you to answer the activity?

Activity # 11 IDENTIFY ME?

Duration: 5 mins.

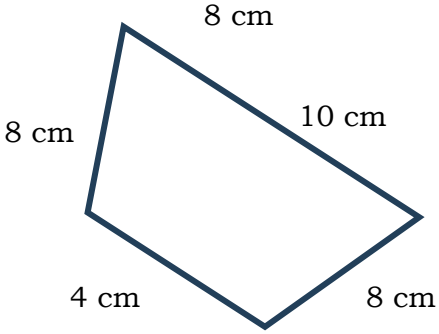
Instructions: Study the figures carefully. Choose the letter of the correct formula/ number sentence in finding the perimeter of the trapezoid.

1.



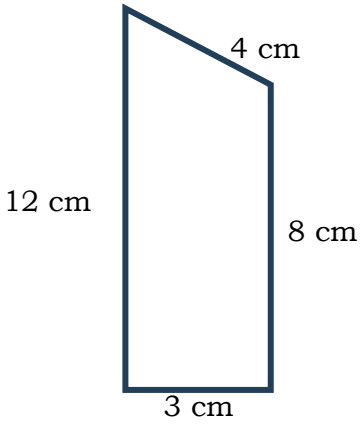
A. 10 cm + 7 cm + 8 cm + 9 cm = n
B. 10 cm - 7 cm + 8 cm x 9 cm = n
C. 10 cm + 7 cm - 8 cm x 9 cm = n
D. 10 cm x 7 cm + 8 cm 9 9 cm = n

2.



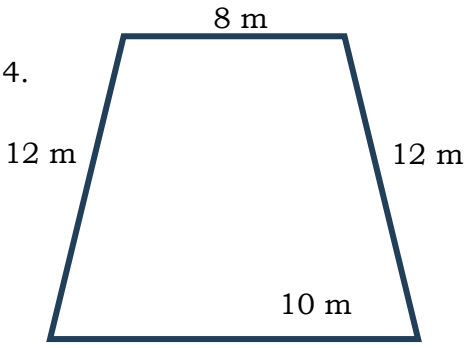
A. 8 cm + 10 cm - 4 cm x 8 cm = n
B. 8 cm + 8 cm + 4 cm + 10 cm = n
C. 8 cm x 10 cm + 4 cm - 8 cm = n
D. 8 cm + 10 cm x 4 cm - 8 cm = n

3.



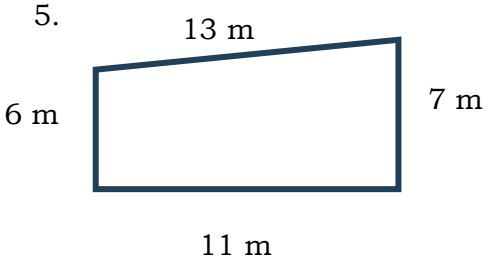
A. 12 cm + 8 cm + 4 cm + 3 cm = n
B. 4 cm + 12 cm x 8 cm - 3 cm = n
C. 4 cm x 12 cm - 8 cm + 3 cm = n
D. 4 cm + 12 cm x 8 cm - 3 cm = n

4.



A. 8 m + 12 cm - 12 cm + 10 cm = n
B. 8 m + 12 cm x 12 cm - 10 cm = n
C. 8 m x 12 cm - 12 cm + 10 cm = n
D. 8 m + 10 cm + (2 x 12 cm) = n

5.



A. 6 m + 7 cm - 13 cm x 11 cm = n
B. 6 m + 7 cm x 13 cm - 11 cm = n
C. 6 m + 7 cm + 13 cm + 11 cm = n
D. 6 m x 7 cm + 13 cm - 11 cm = n

Tasks/Questions:

1. Were you able to identify the correct formula or number sentence of all the trapezoids above?
2. Were all the formulas used the same?

Assessment/Reflection:

Was it easy for you to identify the formula used in computing for the perimeter of each trapezoid?

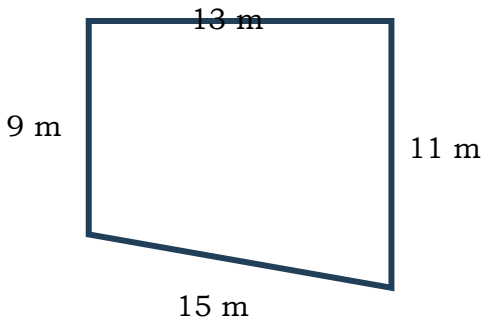
ACTIVITY No. 12: ANSWER ME

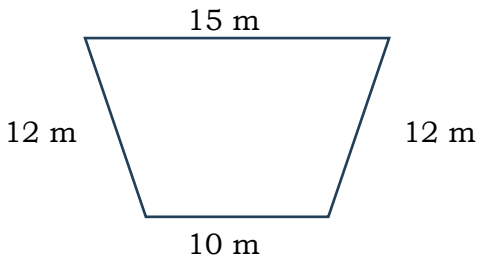
Duration: 5 mins.

Instructions: Study the following number sentences, figures and problems and solve for the perimeter. Show your solutions:

1. 15 m + 17 m + 7 m + 8 m = n

2. 25 cm + 25 cm + 12 cm + 15 cm = n

3. 

4. 

5. A trapezoidal garden has the following measurements: 8 m, 9 m, 14 m, and 14 m.

Tasks/Questions:

1. Were you able to answer all the perimeters of all the items given?
2. Are the shapes of the given number sentences, figures and problem the same?

Assessment/Reflection:

Were you able to apply the formulas learned in computing for the perimeter of each trapezoid?

ACTIVITY # 13: CALCULATE ME!

Duration: 5 mins.

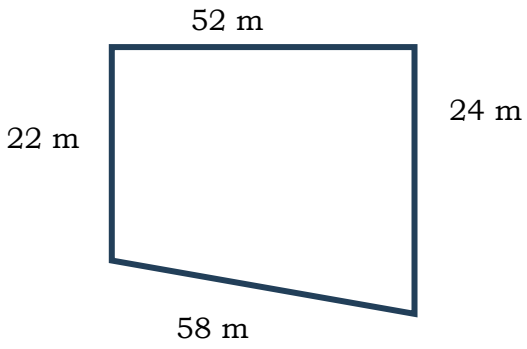
Instructions:

Step 1: You are given two activities to answer. **Activity A** is compute for the perimeter of the given figures.

Step 2. Activity B is, you are given 2 problems to read, analyze and solve for the perimeter applying any formula that you want to use. Any formula, which you think, is easier for you to use, then choose the correct answer from the given choices.

Activity A. Study the following figures and solve for the perimeter.

1.



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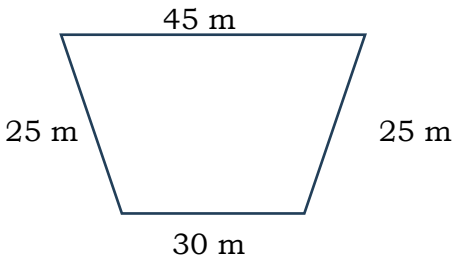

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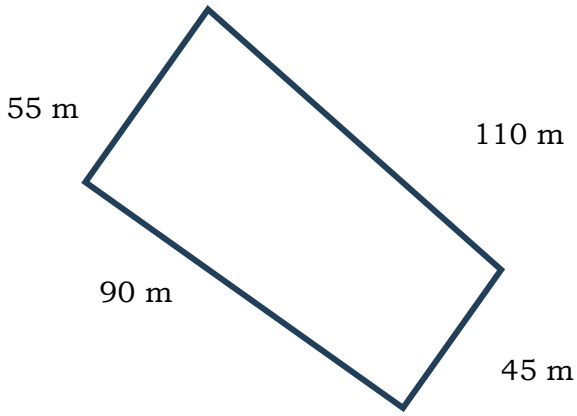


Activity B. Read, analyze, and solve the following problems and answer the questions that follow.

Problem1. A trapezoidal park has the following measurements: 24 cm, 28 cm, 33 cm and 35 cm. respectively. What is the total distance of the trapezoidal park?

3.1 What shape is the park?

A. Square B. Rhombus C. Trapezoid D. Parallelogram

3.2 What are the given facts in the problem?

A. 24 cm, 28 cm, 33 cm, and 35 cm
B. 24 cm, 29 cm, 35 cm, and 36 cm
C. 24 cm, 30 cm, 34 cm, and 36 cm
D. 24 cm, 32 cm, 36 cm, and 40 cm

3.3 What is the correct formula in solving for the perimeter of the given problem?

A. Side1 + side 2 – side 3 x side 4
B. Side1 x side 2 – side 3 + side4
C. Side 1 + side 2 + side 3 + side 4
D. Side 1 – side 2 + side 3 x side 4

3.4 What is the number sentence of the given problem?

A. 24 cm – 28 cm + 33 cm x 35 cm
B. 24 cm + 28 cm + 33 cm +35 cm
C. 24 cm + 28 cm - 33 cm x 35 cm
D. 24 cm x 28 cm + 33 cm - 35 cm

3.5 What is the perimeter of the given problem?

A. 24 cm + 28 cm + 33 cm +35 cm = 105 cm
B. 24 cm + 28 cm + 33 cm +35 cm = 110 cm
C. 24 cm + 28 cm + 33 cm +35 cm = 1115 cm
D. 24 cm + 28 cm + 33 cm +35 cm = 120 cm

Problem 2. A vegetable garden is in a trapezoidal shape with the following measurements:

30 , 30 m, 70 m, and 75 m. What is the perimeter of the garden?

2.1 What shape is the garden?

A. Square B. Rhombus C. Trapezoid D. Parallelogram

2.2. What are the given facts in the problem?

A. 34 cm, 34 cm, 70 cm, and 75 cm
B. 30 cm, 30 cm, 65 cm, and 70 cm
C. 70 cm, 70 cm, 35 cm, and 75 cm
D. 30 m, 30 m, 70 m and 75 m

5.3. What is the correct formula in solving for the perimeter of the given problem?

A. Side1 + side 2 – side 3 x side 4
B. Side1 x side 2 – side 3 + side4
C. Side 1 + side 2 + side 3 + side 4
D. Side 1 – side 2 + side 3 x side 4

5.4. What is the number sentence of the given problem?

A. 30 m + 30 m + 70 m + 75 m
B. 30 m + 30 m - 70 m x 75 m
C. 30 m x 30 m + 70 m - 75 m
D. 30 m x 30 m - 70 m + 75 m

2.5. What is the perimeter of the given problem?

A. 30 m + 30 m + 70 m + 75 m = 205 cm
B. 30 m + 30 m + 70 m + 75 m = 210 cm
C. 30 m + 30 m + 70 m + 75 m = 215 cm
D. 30 m + 30 m + 70 m + 75 m = 220 cm

Tasks/Questions:

1.Were you able to answer all the activities correctly?

2. Did you use the same formula in calculating for the perimeter of the figures and problems given?

LEARNING ACTIVITY SHEET

Learning Area:	**Mathematics**	**Quarter**	**1**
Week	**3**	**Day**	
Lesson Title/Topic	**Perimeter of Parallelogram, Rhombus and Trapezoid**		
Name		**Grade & Section**	**4**

ACTIVITY # 14: SOLVE ME MORE!

Duration: 10 mins.

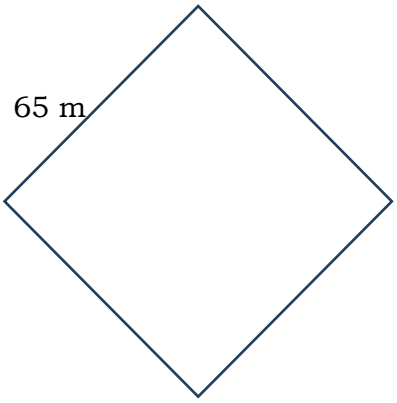
Instructions: Solve for the perimeter of the following quadrilaterals

Step 1. You are given different illustrations of the quadrilaterals learned in the past days.

Step 2. Study the figures carefully and use the appropriate formula in solving for the perimeter.

Activity. Study the following figures and solve for the perimeter.

1.



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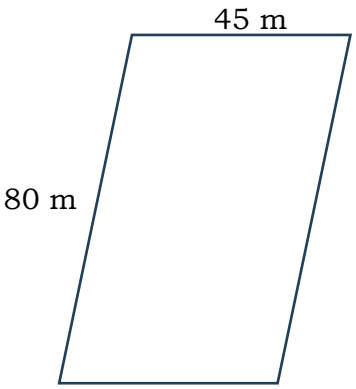

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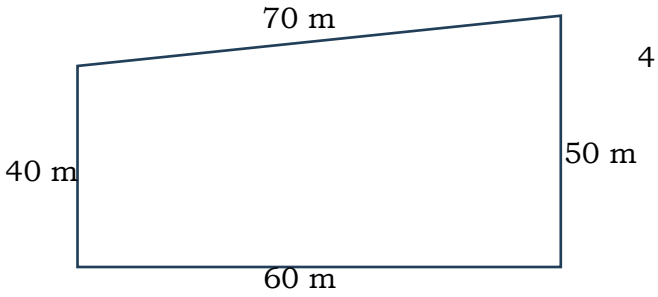

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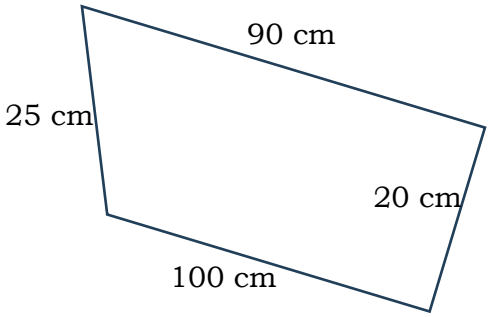

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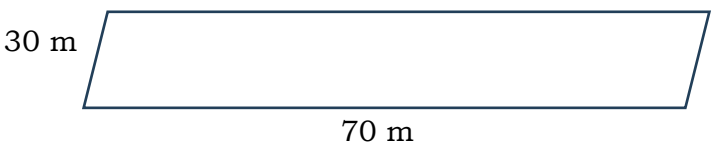

ACTIVITY No. 15: EXPLORING QUADRILATERALS

Duration: 10 mins.

Instructions: Read, analyze, and solve the perimeter of the following problems. Be guided with the questions below the problem.

1. Anamarie together with her friends walks around the parallelogram park to stay fir. If the park has a length of 25 m and a width of 18 m, what is the distance that Anamarie and friends walk?

a. Shape of the Park: _____

b. Length: _____

c. Width : _____

d. Formula in Solving: _____

e. Perimeter of the Park: _____

2. A trapezoidal lot is to be planted with Santan plants all around. The sides of the lot measure 10 m., 15m., 35 m., and 40 m respectively. What is the perimeter of the lot?

a. Shape of the Lot: _____

b. Measurements of the sides: _____

d. Formula in Solving: _____

e. Perimeter of the Lot: _____

3. One side of a rhombus working table is 60 cm. Find its perimeter.

a. Shape of the working table: _____

b. Measurements of the sides: _____

c. Formula in Solving: _____

d. Perimeter of the Lot: _____

Tasks/Questions:

1. Were you able to analyze and solve the problems correctly??

2. Did you use the same formula in calculating the perimeter of the given problems?

Assessment/Reflection:

What made you answer the given problems easier or harder?

Were there unfamiliar words used in the given problems?