4

DepED
DEPARTMENT OF EDUCATION

Learning Activity Sheet for Mathematics

Quarter 1
Week
4

DepED MATATAG
BAGONG PILIPINAS
ONE NCR STRONGER TOGETHER

Learning Activity Sheet Mathematics Grade 4
Quarter 1: Week 4

This material is intended exclusively for the use of teachers in the implementation of the MATATAG K to 10 Curriculum. It aims to assist in delivering the curriculum content, standards, and lesson competencies.

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LEARNING ACTIVITY SHEET 1

Learning Area:	**Mathematics**	**Quarter:**	**1**
Week:	**4**	**Day:**	**1**
Lesson Title/ Topic:	**Perimeter of Composite Figures Composed of Triangles**		
Name:		**Grade & Section:**	**4**

Activity No. 1 FIND ME

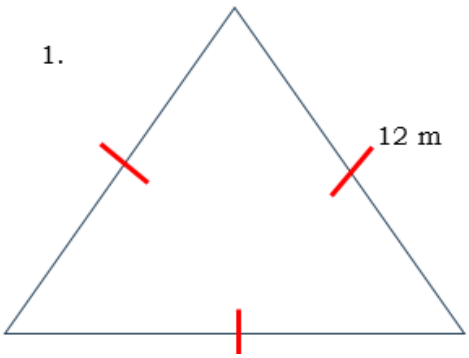
Duration: 5 mins.

Task 1: Perform the indicated operation.

1. $15 + 15 + 15 =$ _____
2. $10 + 11 + 12 =$ _____
3. $10 \times 2 + 14 =$ _____
4. $13 + 17 + 13 + 17 =$ _____
5. $8 \times 2 + 10 \times 2 =$ _____

Task 2: Study the figures below. Use the given side lengths to calculate its perimeter.

1.



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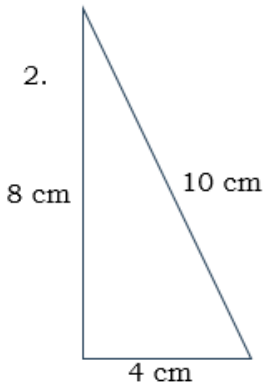

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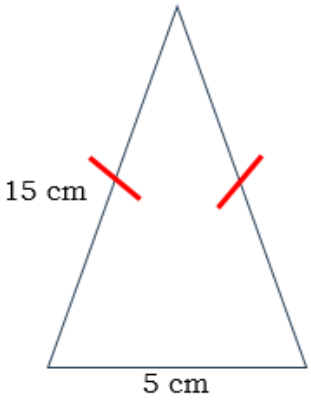

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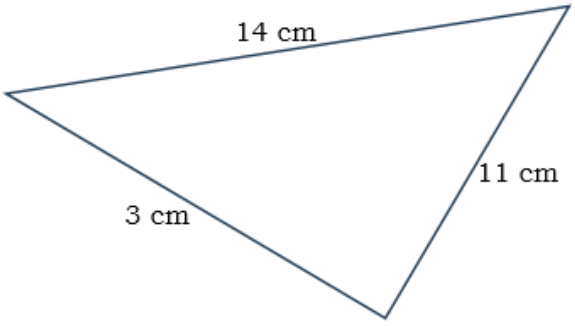

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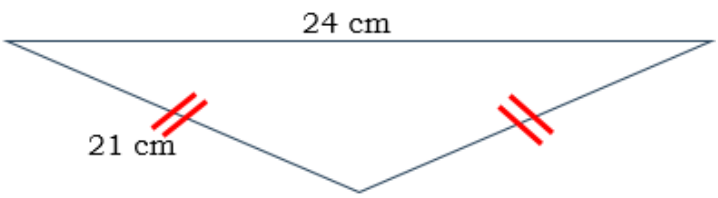
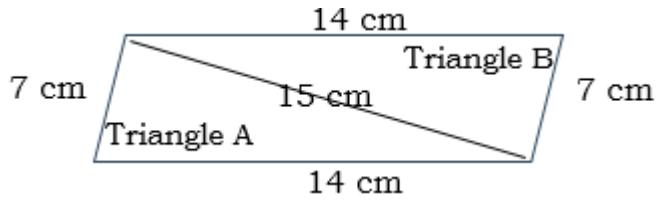


Activity No. 2: SOLVE ME!

Duration: 10 mins.

A. Instruction: Study the composite figure below, then answer the questions that follow.

The figure below (a parallelogram) is produced by putting together two triangles with their side length as shown.



1. What are the measurements of the sides of each triangle?

   Triangle A; _____, _____, _____

   Triangle B: _____, _____, _____

2. What is the perimeter of Triangle A?

3. What is the perimeter of Triangle B?

4. What is the perimeter of the composite figure (*parallelogram*) formed by two triangles?

5. If the sides of the triangles with lengths of 7 cm are put together, what will be the perimeter of the composite figure? What about putting together the sides with a length of 14 cm?

B. The Four Equilateral Triangles

1. Four equilateral triangles of side length 5 cm each are put together to form a bigger equilateral triangle. What is the perimeter of the bigger equilateral triangle?

2. One big equilateral triangle of side length 10 cm is cut to form four equilateral triangles.

   a) How should it be cut? Draw it.

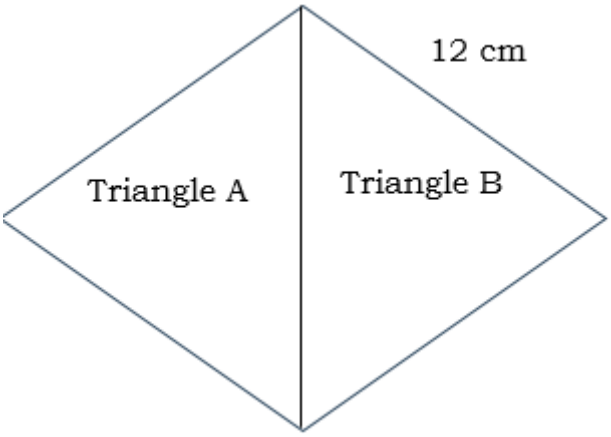
   b) What is the perimeter of one of the four triangles?

Activity No. 3: TEST TIME!

Duration: 5 mins.

Instruction: Solve for the perimeter of the composite figure. Show your solutions.

The figure (*rhombus*) below is formed by putting together equilateral triangles with side lengths of 12 cm.



Questions:

1. Calculate the perimeter of triangle A?

2. Calculate the perimeter of triangle B?

3. What is the perimeter of the rhombus?

Activity No. 4: Add More!

Duration: 10 mins.

Instruction: Solve for the perimeter of the composite figure. Show your solutions.

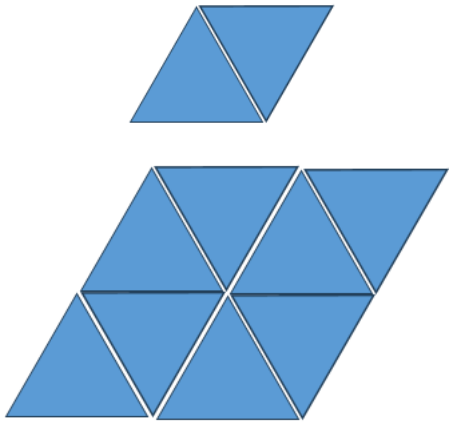
1. Six equilateral triangles with side lengths of 10 cm each are put together.

a) What is the smallest perimeter of the figure that these triangles can form? Draw this figure.

b) What is the largest perimeter of the figure that these triangles can form? Draw this figure.

c) Draw a composite figure that can have a perimeter of 80 cm?

2. It is certain that two equilateral triangles and eight equilateral triangles can form a rhombus when put together as shown. How many equilateral triangles are needed to form the next bigger rhombus? What are their perimeters?



LEARNING ACTIVITY SHEET 2

Learning Area:	**Mathematics**	**Quarter**	**1**
Week	**4**	**Day**	**2**
Lesson Title/Topic	**Finding the Perimeter of Composite Figures Composed of Triangles**		
Name		**Grade & Section**	**4**

Activity No. 5: Whatever Will Be, Will Be!

Duration: 5 mins.

Instruction: The congruent sides of two congruent triangles with side lengths 6 cm, 8 cm, and 10 cm are put together to form a new figure (a parallelogram).

1. What is the perimeter of the parallelogram if the sides of length 6 cm are put together?

2. What is the perimeter of the parallelogram if the sides of length 8 cm are put together?

3. What is the perimeter of the parallelogram if the sides of length 10 cm are put together?

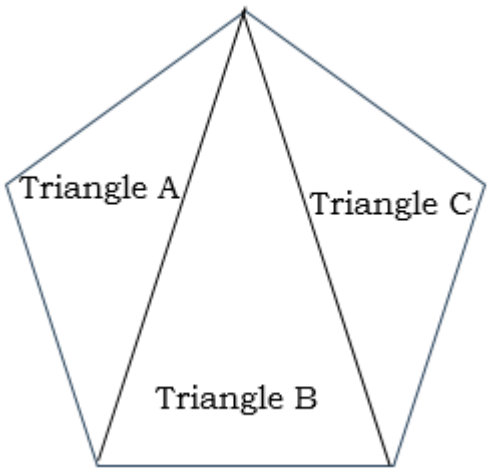
4. Which of the three situations will give the smallest perimeter?

5. Which of the three situations will give the largest perimeter?

Activity No. 6: YOU CAN DO IT!

Duration: 5 mins.

Instruction: Study the figures below and solve for the perimeter.



Triangle A and Triangle C

Sides = 18m; 20m, 25m

Triangle B is an isosceles triangle

Sides = 25m, 15m

Questions:

1. What is the perimeter of Triangle A? _____
2. What is the perimeter of Triangle B? _____
3. What is the perimeter of Triangle C? _____
4. What is the perimeter of Triangle A and C?
5. What is the perimeter of the composite figure formed by the three triangles?

Tasks/Questions:

1. Were you able to find the perimeter of all the triangles correctly?

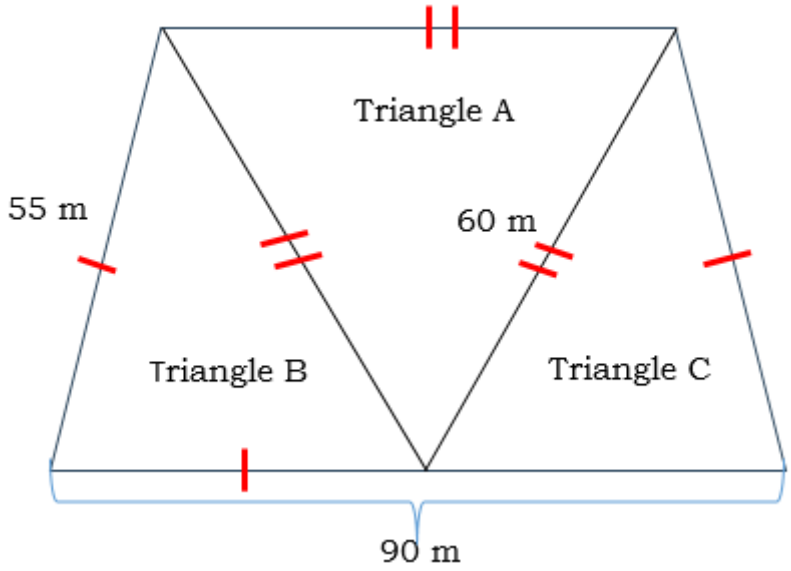
Assessment/Reflection:

What strategies did you use to calculate the perimeter?

Activity No. 7: YOU CAN DO MORE!

Duration: 5 mins.

Instruction: Study the figures below and solve for the perimeter. Write your answers on a separate sheet of paper. Show your solutions.



1. Perimeter of Triangle A?
2. Perimeter of Triangle B?
3. Perimeter of Triangle C?
4. Perimeter of the Figure formed by these three triangles?
5. Find the difference between the total perimeter of the three triangles and the perimeter of the Figure.

Tasks/Questions:

Were you able to find the perimeter of all the triangles correctly?

LEARNING ACTIVITY SHEET 3

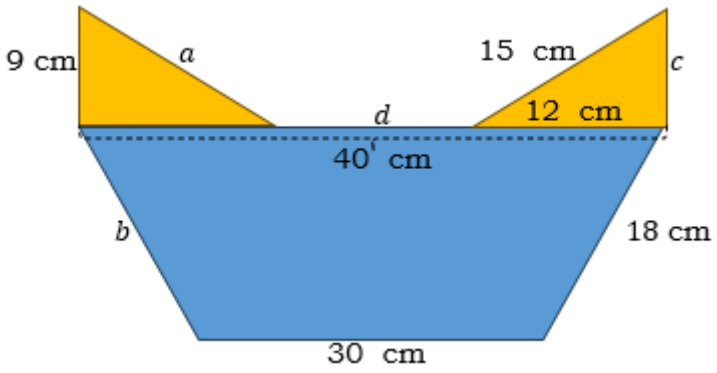
Learning Area:	**Mathematics**	**Quarter**	**1**
Week	**4**	**Day**	**3**
Lesson Title/Topic	**Finding the Perimeter of Composite Figures Composed of Quadrilaterals**		
Name		**Grade & Section**	**4**

Activity No. 8: How far can I go?

Duration: 5 mins.

Directions: Study the figure below and answer the questions that follow.

The triangles are congruent. The trapezoid is isosceles.



A. What length corresponds to

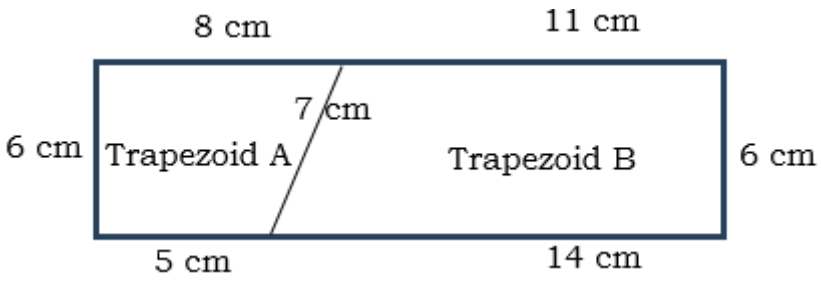
1. $a =$
2. $b =$
3. $c =$
4. $d =$

B. What is the perimeter of the trapezoid in the figure?

Activity No. 9: LOOK FOR ME!

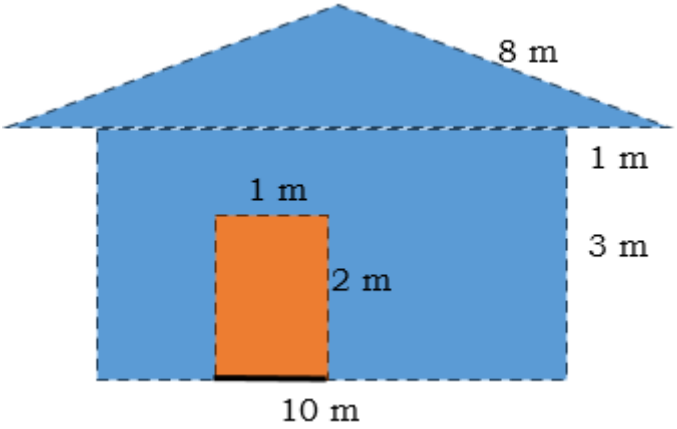
Duration: 10 mins.

Task 1: The figure (rectangle) is formed by joining the sides of two trapezoids.



1. What is the perimeter of Trapezoid A? _____
2. What is the perimeter of Trapezoid B? _____
3. What is the sum of the perimeters of the two trapezoids? _____
4. What is the perimeter of the rectangle? _____

Task 2: Mr. R is planning to put LED lights at the sides of the front of their house along the *broken lines* as shown below. Assume that the roof is symmetric.

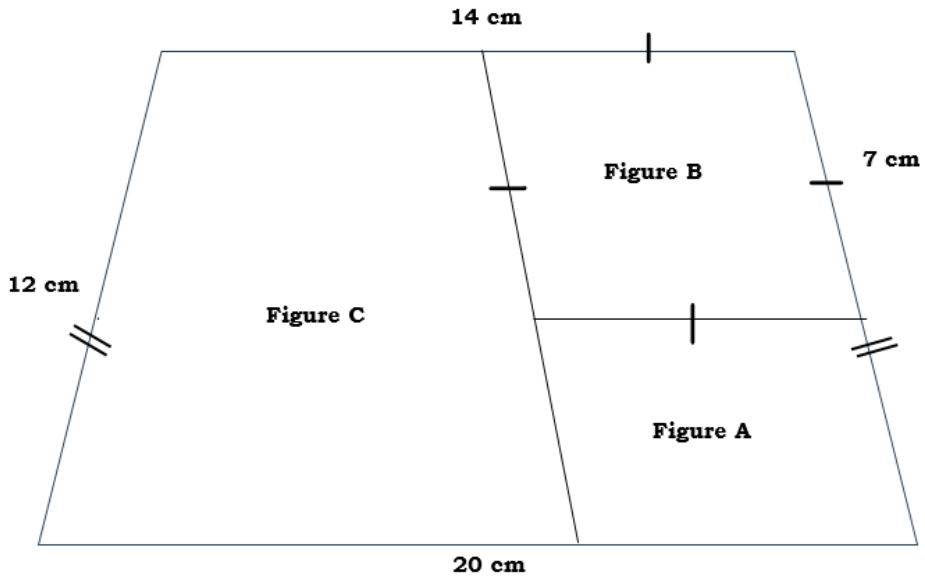


Question: Calculate the total length of the LED lights needed to cover all the front edges of the house.

Activity No. 10: Test Time!

Duration: 10 mins.

Instructions: Study the figure below and calculate the perimeter of each quadrilateral to find the perimeter of the whole composite figure. The measurements of the whole figure are given below. Analyze critically before answering the questions below.



Questions:

1. How many quadrilaterals are there in the composite figure?
2. What are the measurements of the sides of Figure B?
3. What are the measurements of the sides of Figure C?
4. Which figure is a rhombus?
5. What is the perimeter of the rhombus?
6. What is the perimeter of the smaller trapezoid (Figure C)?
7. What is the perimeter of Figure A?
8. What is the perimeter of the largest trapezoid (the whole figure)?
9. What is the sum of the perimeters of the smallest trapezoid and the largest trapezoid?
10. What is the sum perimeter of the 3 quadrilaterals in the composite figure?

Reflection:

1. Were you able to find the perimeters correctly?
2. What part is still difficult for you?

Activity No. 11: Add More!

Duration: 10 mins.

Instructions: Study the Figure below with the measurements that follow, then **c**alculate the perimeter by answering the questions.

Figure

Measurements:

Rectangle A: Length 14 cm, Width 6 cm

Rectangle B: Length 6 cm, Width 3 cm

Rectangle C: Length 6 cm, Width 3 cm

Questions:

1. What is the perimeter of Rectangle A?
2. What is the perimeter of Rectangle B?
3. What is the perimeter of Rectangle C?
4. What is the perimeter of the biggest rectangle formed by the three rectangles?
5. Calculate the difference between the sum of the perimeters of rectangles A, B, and C and the perimeter of the biggest rectangle?

Task/Question:

Were you able to find the perimeter of all the triangles correctly?

Assessment/Reflection:

What strategies did you use to calculate the perimeter?

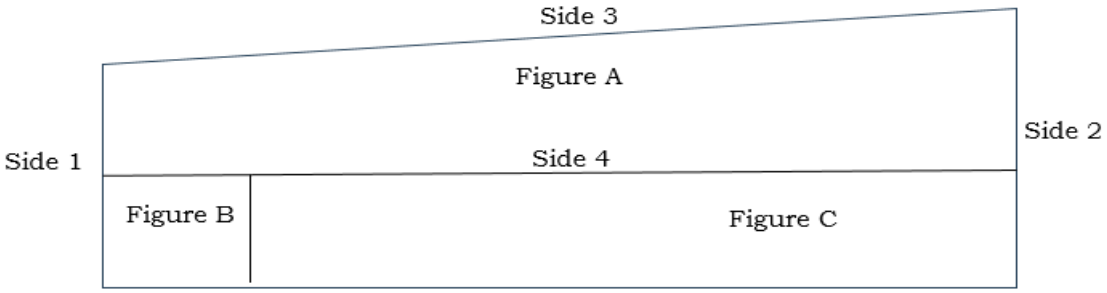
LEARNING ACTIVITY SHEET 4

Learning Area:	**Mathematics**	**Quarter**	**1**
Week	**4**	**Day**	**4**
Lesson Title/Topic	**Finding the Perimeter of Composite Figures Composed of Quadrilaterals**		
Name		**Grade & Section**	**4**

Activity No. 12: YOU CAN NOW TAKE ME!

Duration: 5 mins.

Instructions: Study the figure below and calculate the perimeter of each quadrilateral to find the perimeter of the whole composite figure.



Measurements:

Side 1 = 8m, Side 2 = 9m, Side 3 = 15m, Side 4 = 12m, Square side = 4m

Questions:

1. What are the measurements of the sides of the trapezoid (Figure A)?
   A. 8 m, 9 m,15 m, and 12 m
   B. 4 m, 5 m,15 m, and 12 m
   C. 4 m, 5 m, 9 m, and 8 m
   D. 5 m, 8 m, 12 m, and 16 m

2. What are the measurements of the sides of the square?
   A. 8 m, 9 m, 15 m, and 12 m
   A. 4m
   C. 4 m and 8 m
   D. 9 m

3. What are the measurements of the sides of the rectangle?
   A. 8 m, 9 m, 15 m, and 12 m
   B. 4m
   C. 4 m and 8 m
   D. 9 m

4. What is the perimeter of the trapezoid (Figure A)
   A. 36m B. 46m C. 56m D. 66m

5. What is the perimeter of the square?
   A. 12m B. 16m C. 20m D. 24m

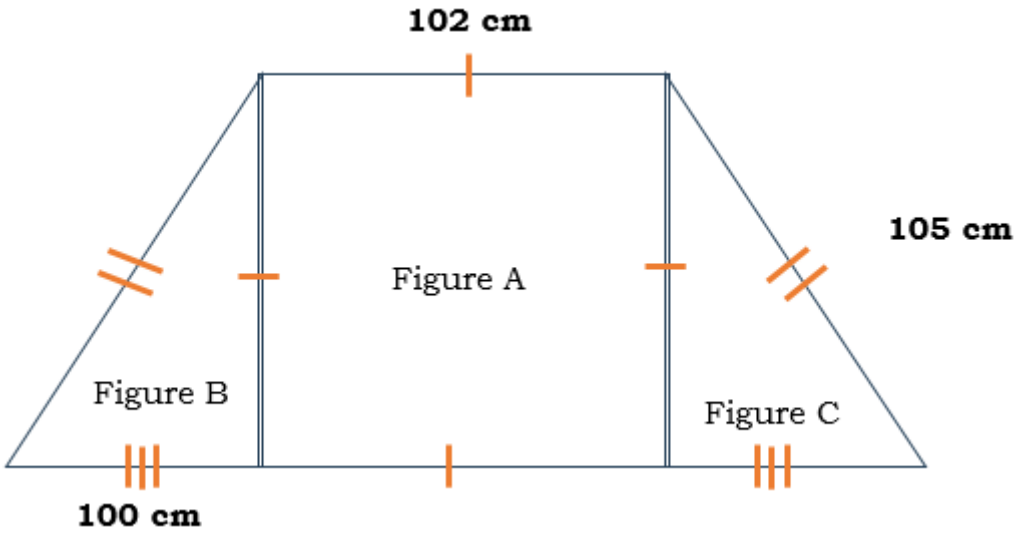
6. What is the perimeter of the rectangle?
   A. 16m B. 20m C. 24m D. 28m

7. What is the perimeter of the composite figure composed of 3 quadrilaterals?
   A. 56m B. 66m C. 76m D. 86m

ACTIVITY No. 13: SOLVE ME MORE!

Duration: 10 mins.

Instructions: Study the figure below and answer the questions below.



Questions:

1. What are measurements of the sides of the square?
2. What formula can we use in solving for the perimeter of the square?
3. What is the perimeter of the square?
4. What are the measurements of the sides of the two triangles?
5. What is the perimeter of the triangle (Figure A)?
6. What is the perimeter of the triangle (Figure C)?
7. What is the perimeter of the 2 triangles?
8. What is the perimeter of the square and the triangle (Figure C)
9. What is the perimeter of the triangle (Figure B and the square)?
10. What is the perimeter of the 2 triangles and 1 square in the composite figure?

Tasks/Questions:

Were you able to solve the perimeter of all the figures?

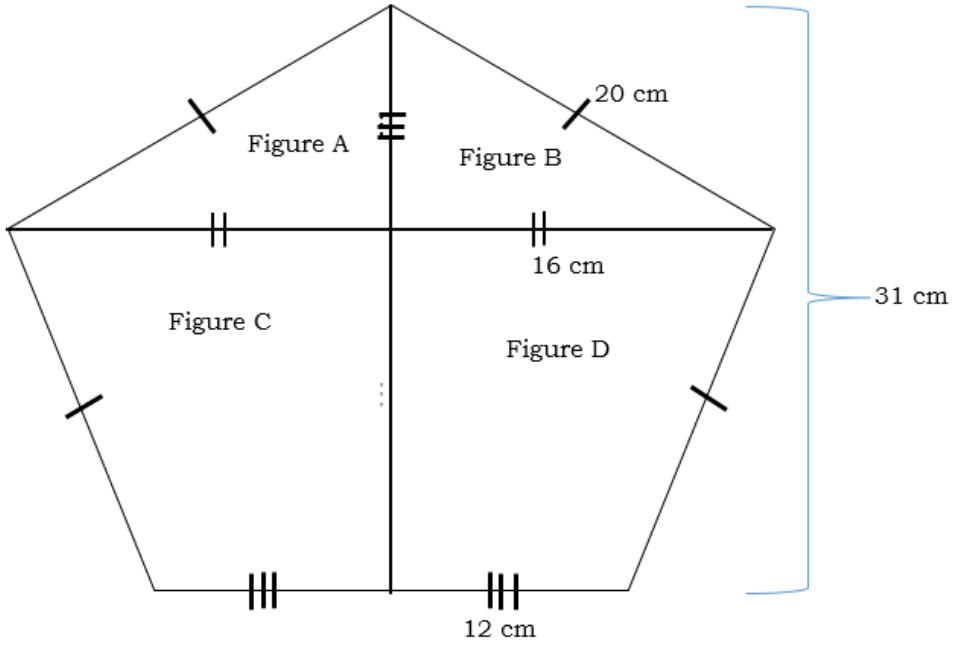
Assessment/Reflection:

What made you answer the activity easily?

ACTIVITY No. 14: Test Time

Duration: 10 mins**.**

Instructions: Study the figure below and the given measurements, then answer the questions below.



Questions:

1. What are the measurements of the sides of Figure A?
2. What is the perimeter of the triangle (Figure A)?
3. What are the measurements of the sides of Figure B?
4. What is the perimeter of the triangle (Figure B)?
5. What are the measurements of the sides of Figure C?
6. What is the perimeter of the trapezoid in Figure C?
7. What are the measurements of the sides of Figure D?
8. What is the perimeter of the trapezoid in Figure D?
9. What is the sum of the perimeters of the four figures?
10. What is the perimeter of the composite figure?