



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**
*Maabik 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 2: Identifying and Describing Triangles and Quadrilaterals



Name of Learner: _____

Grade & Section: _____

Name of School: _____



What I Need to Know

The module contains two lessons:

- Identifying and describing triangles according to sides and angles
- Identifying and describing the different kinds of quadrilaterals: square, rectangle, parallelogram, trapezoid, and rhombus

After going through this module, you are expected to:

1. Identify and describes triangles according to sides and angles
2. Identify and describes the different kinds of quadrilaterals: square, rectangle, parallelogram, trapezoid, and rhombus



What I Know

A. Directions: Choose the letter of the correct answer. Write the chosen letter on the space provided for you.

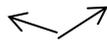
___ 1. Which angle measures more than 90° but less than 180° ?

- A. right angle C. obtuse angle
B. acute angle D. none of the above

___ 2. What kind of angle is represented when the hands of a clock says it's 12:15?

- A. right angle C. obtuse angle
B. acute angle D. none of the above

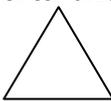
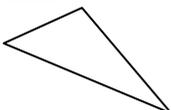
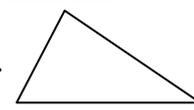
___ 3. Which angle shows an acute angle?

- A.  B.  C.  D. 

___ 4. Which triangle has no equal sides?

- A. isosceles triangle C. equilateral triangle
B. scalene triangle D. none of the above

___ 5. Which figure shows equilateral triangle?

- A.  C. 
B.  D. 

B. Directions: Draw a square if your answer is True or a rectangle if it is False.

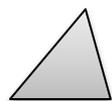
- ___ 1. All angles of quadrilaterals are equal.
___ 2. A quadrilateral that is divided diagonally forms 2 triangles.
___ 3. Any 4-sided polygon is a quadrilateral.
___ 4. All triangles have right angles.
___ 5. A triangle is a 3-sided polygon.



What's In

Activity 1: Who am I?

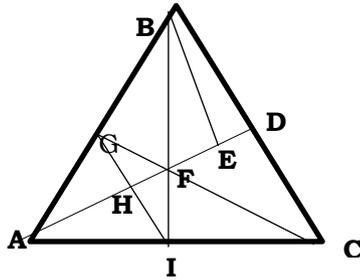
Directions: Name what is being described in each item.

Name	Figure and Description
1.	Who am I? I am a triangle. I have right angle. 
2.	Who am I? I am a triangle. I have three equal sides. 
3.	Who am I? I am a triangle. I have obtuse angles. My angle measures more than 90° but less than 180° . 
4.	Who am I? I am a triangle. I have no congruent or equal sides. 
5.	Who am I? I am a triangle. I have acute angles. My angle measures less than 90° . 
6.	Who am I? I am a quadrilateral. Both pairs of my opposite sides are parallel. Both pairs of my opposite angles are congruent. 
7.	Who am I? I am a parallelogram. I have 4 right angles. My diagonals are congruent. 
8.	Who am I? I am a parallelogram. I have four equal sides. 
9.	Who am I? I am a parallelogram. I have four equal sides and four right angles. 
10.	Who am I? I am a quadrilateral. I have exactly one pair of parallel sides 



What's New

A big triangle has been divided into small triangles of different sizes.



- In the given figure above, how many small triangles does it have?
- Will you able to classify the triangles according to its angle? How?

Look at the different quadrilaterals.



- What polygon has 4 sides and 4 angles?
- What are the different quadrilaterals?
- Do you think it is important to know how to identify and describe quadrilaterals? Why?

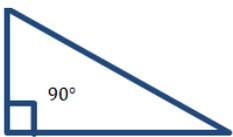


What is it

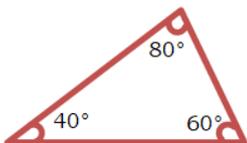
Let us study the classification of triangles.

A **triangle** is a three-sided polygon. It has three vertices and three angles.

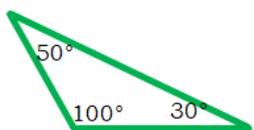
- **Triangles** can be classified according to their **angles**.



A **right triangle** has a right angle which measures 90° .

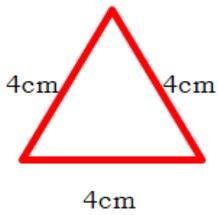


An **acute triangle** has 3 acute angles, each measuring less than 90° .

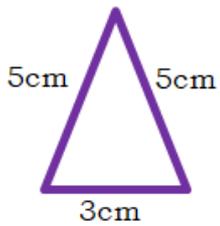


An **obtuse triangle** has an obtuse angle which measures more than 90° but less than 180° .

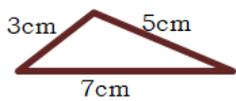
➤ **Triangles** can also be classified according to their **sides**.



An **equilateral triangle** has 3 equal sides.



An **isosceles triangle** has 2 equal sides.



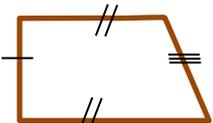
A **scalene triangle** has no equal sides.

Let us also study the different kinds of quadrilaterals.

Quadrilaterals are four-sided plane figures that have four angles and four vertices.



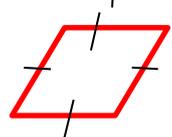
Parallelogram is a quadrilateral whose opposite sides are parallel and equal.



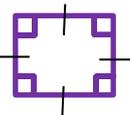
Trapezoid is a quadrilateral that has exactly one pair of parallel sides.



Rectangle is a parallelogram whose opposite sides are parallel and equal in length. It has 4 right angles.



Rhombus is a parallelogram with 4 equal sides. It has no right angles.



Square is a parallelogram that has 4 equal sides and 4 right angles.

Parallelograms are quadrilaterals that the opposite side are parallel. **Squares, rectangles** and **rhombus** are **parallelogram**.



What's More

Activity 2

I. Directions: Identify the following triangles according to their angles. Match column A with column B.

- A
- -
 -

- B
- Obtuse Triangle
 - Right Angle
 - Right Triangle
 - Right Triangle
 - Acute Angle

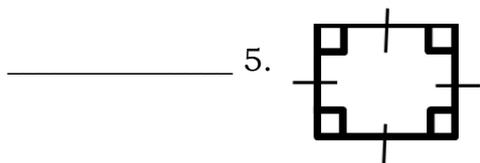
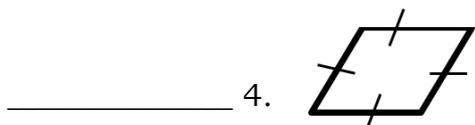
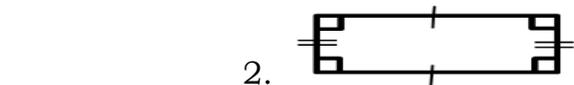
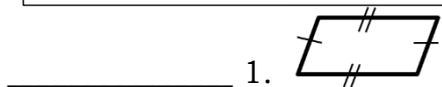
II. Directions: Identify the following triangles according to their sides. Match column A with column B.

- A
- -
 -

- B
- Isosceles Triangle
 - Equilateral Triangle
 - Scalene Triangle
 - Obtuse Triangle

III. Directions: Identify the following quadrilaterals. Choose the letter of the correct answer inside the box.

- | | | | | |
|------------------|---------------------|-------------------|---------------------|-------------------------|
| A. Square | B. Rectangle | C. Rhombus | D. Trapezoid | E. Parallelogram |
|------------------|---------------------|-------------------|---------------------|-------------------------|



What I Have Learned

Activity 3: Name Me

A. Name the following triangles according to their **angles**:



B. Name the following triangles according to their **sides**:



C. Name the following **quadrilaterals**:





What I Can Do

Activity 4: Draw Me

Directions: Draw the following figures with the indicated measurement:

1. Acute triangle, 70°

2. Obtuse triangle, 110°

3. Right triangle

4. Equilateral triangle, each side measures 7cm.

5. Scalene triangle, side A measures 5cm, side B measures 6cm, side C measures 3cm.

6. Square- 7cm

7. Trapezoid- 5cm, 7cm, 4cm

8. Rhombus- 6cm

9. Rectangle-5cm, 10cm

10. Parallelogram- 8cm, 4cm



Assessment

Directions: Read each item carefully. Write the letter of your answer on the space before the number.

___ 1. What type of triangle has angles 64° , 47° and 69° ?

- A. acute triangle
- B. obtuse triangle
- C. right triangle
- D. obtuse and acute triangle

___ 2. What do you call a triangle with no equal sides?

- A. isosceles triangle
- B. scalene triangle
- C. equilateral triangle
- D. right triangle

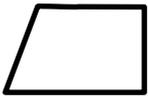
___ 3. Which of the following statement describes an equilateral triangle.

- A. It is a triangle with two equal sides.
- B. It is a triangle with no equal sides.
- C. It is a triangle with three equal sides.
- D. It is a triangle with two to three equal sides.

___ 4. How are triangles classified?

- A. They are classified according to line segments.
- B. They are classified according to sides.
- C. They are classified according to angles.
- D. They are classified according to sides and angles.

___ 5. Which of the following is a trapezoid?

- A. A quadrilateral with one pair of parallel horizontal sides, the top side being shorter than the bottom side.
- B. A rectangle with two pairs of parallel horizontal sides.
- C. A parallelogram with two pairs of parallel slanted sides.
- D. A square with four equal sides and four right angles.

___ 6. What do you call a quadrilateral that has exactly one pair of parallel sides?

- A. square
- B. trapezoid
- C. rectangle
- D. rhombus

___ 7. What do you call a parallelogram that has 4 right angles and its opposite sides are parallel and equal.

- A. rhombus
- B. square
- C. rectangle
- D. parallelogram

___ 8. Which shows a rhombus?

- A. 
- B. 
- C. 
- D. 

___ 9. What kind of quadrilateral has 4 equal sides and 4 right angles?

- A. square
- B. rectangle
- C. parallelogram
- D. trapezoid

___ 10. What do you call a quadrilateral whose opposite sides are parallel and equal?

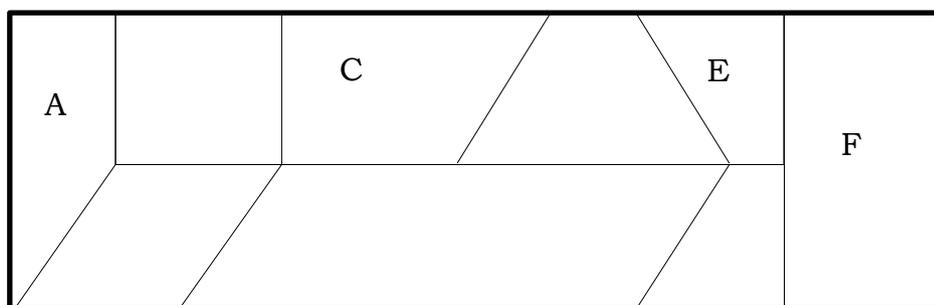
- A. square
- B. parallelogram
- C. rectangle
- D. rhombus

Additional Activities

A. Draw the following triangles correctly.

1. Right triangle
2. Obtuse triangle
3. Acute triangle
4. Equilateral triangle
5. Isosceles triangle
6. Scalene triangle

B. Using the drawing below, Identify the figures represented by the letters.



References

Tabilang, Alma R., Ian Jay B. Arce, Rodrigo V. Pascua, Nelma P. Calayag, et al., *Mathematics 4 Learner's Material*. edited by Mary Jeanne B. Aldeguer. Pasig: Department of Education, 2015

Tabilang, Alma R., Ian Jay B. Arce, Rodrigo V. Pascua, Nelma P. Calayag, et al., *Mathematics 4 Teachers Guide*. edited by Mary Jeanne B. Aldeguer. Pasig: Department of Education, 2015

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