

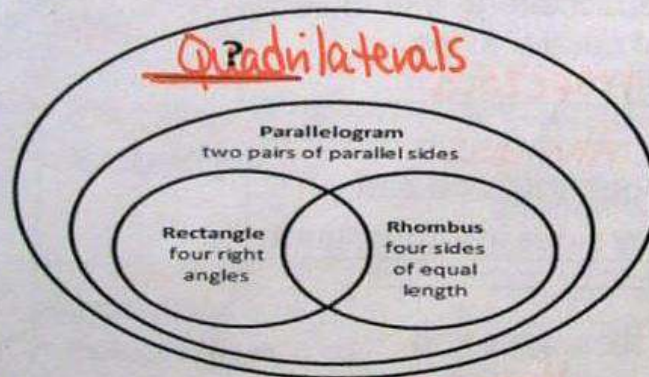
ANSWER KEY: UNIT 6 STUDY GUIDE (QUADRILATERALS & TRIANGLES)

Unit 5 Study Guide
Math HW: Week 6, March 1-5

Date Week 6: March 1-5, 2021

MONDAY, MARCH 1-2: COMPLETE ALL OF PAGE 1
TUESDAY, MARCH 3: COMPLETE ALL OF PAGE 2
WEDNESDAY, MARCH 4: COMPLETE ALL OF PAGE 3

Use the graphic organizer to answer the question.



Which terms could correctly label the blank?

- I. quadrilateral ✓
- II. trapezoid
- III. square

Read the clues and correctly identify which polygon is being described. Draw a line from the correct vocabulary word to the clue. *Hint: read all of the clues before drawing your lines. Draw the shape to help.

~~Triangle~~ **Triangle**

I have less than 4 sides

Pentagon

I have more than 4 sides-five to be exact

Parallelogram

I have exactly 2 sets of parallel sides

Square

All of my sides are congruent and I have 4 right angles

Rectangle

Octagon

Triangle

Parallelogram

Pentagon

Hexagon

Square

3)

Octagon
I am an eight-sided polygon

Octagon

Rhombu

rectangle
I am a parallelogram with
4 right angles

Trapezoi

I am a quadrilateral with at least
1 pair of parallel sides.
trapezoid

Square

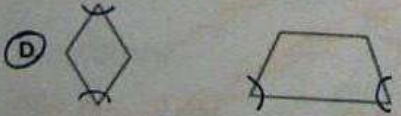
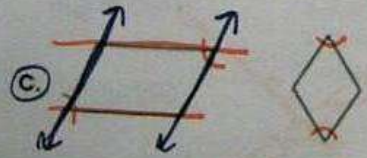
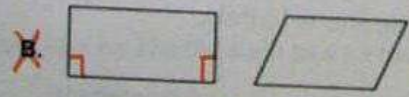
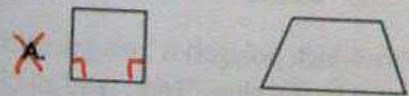
Rhombus
I am a quadrilateral and
all of my sides are congruent

Pentagon

I have six angles and
six sides **Hexagon**

Parallelogr

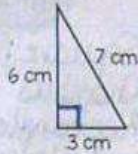
4) Which two quadrilaterals have both 2 acute angles and 2 pairs of parallel sides?



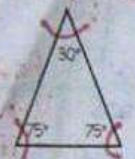
5) Classify each of the triangles below based on their sides and angles. (2 names each)



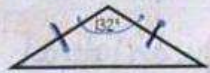
Angles
Acute
Equilateral



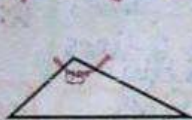
Sides
Scalene
Right Triangle



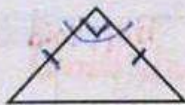
Acute
Triangle



Isosceles
Triangle *



Obtuse
Triangle

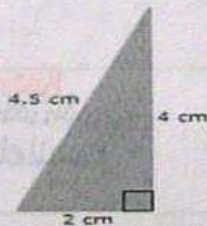


Isosceles
Right Triangle

Acute Angle $\leq 90^\circ$; Obtuse: Angles $> 90^\circ$; Right Angles $= 90^\circ$

The triangle fits which of the following classifications?

6)



Picture is not drawn to scale.

- I. Scalene ✓
- II. Right ✓
- III. Obtuse
- IV. Isosceles

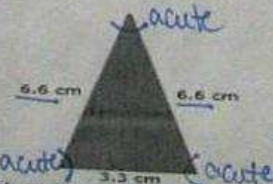
7)

Which of the following are also classified as a parallelogram?

- I. rectangle ✓
- II. rhombus ✓
- III. square ✓

8)

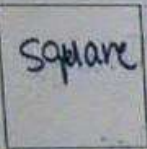
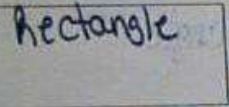
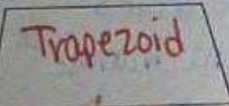
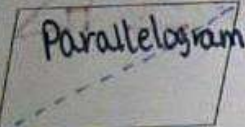
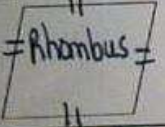
The triangle fits which of the following classifications?



Picture is not drawn to scale.

- I. Right
- II. Acute ✓
- III. Isosceles ✓
- IV. Equilateral

Identify each of the polygons below (include all possible names) and write their properties.

Picture	Names	Properties				
	Square: - Rhombus - Rectangle - Quadrilateral * Parallelogram	<table border="1"> <tr> <th>Sides</th> <th>Angles</th> </tr> <tr> <td>- 4 equal, \approx sides - 2 pairs of parallel sides</td> <td>- 4 Right angles - opposite angles \approx</td> </tr> </table>	Sides	Angles	- 4 equal, \approx sides - 2 pairs of parallel sides	- 4 Right angles - opposite angles \approx
Sides	Angles					
- 4 equal, \approx sides - 2 pairs of parallel sides	- 4 Right angles - opposite angles \approx					
	Rectangle: - Quadrilateral - Parallelogram	<table border="1"> <tr> <th>Sides</th> <th>Angles</th> </tr> <tr> <td>- 2 lines of symmetry * Opposite sides are \approx * 2 pairs of parallel sides</td> <td>- 4 Right \angle's - opposite \angle's \approx</td> </tr> </table>	Sides	Angles	- 2 lines of symmetry * Opposite sides are \approx * 2 pairs of parallel sides	- 4 Right \angle 's - opposite \angle 's \approx
Sides	Angles					
- 2 lines of symmetry * Opposite sides are \approx * 2 pairs of parallel sides	- 4 Right \angle 's - opposite \angle 's \approx					
	Trapezoid: - Quadrilateral	<table border="1"> <tr> <th>Sides</th> <th>Angles</th> </tr> <tr> <td>* at least 2 lines of symmetry</td> <td>* Opposite Angles NOT \approx * NO Right angles</td> </tr> </table>	Sides	Angles	* at least 2 lines of symmetry	* Opposite Angles NOT \approx * NO Right angles
Sides	Angles					
* at least 2 lines of symmetry	* Opposite Angles NOT \approx * NO Right angles					
	Parallelogram: - Quadrilateral	<table border="1"> <tr> <th>Sides</th> <th>Angles</th> </tr> <tr> <td>* 1 pair of parallel sides * No Lines of symmetry</td> <td>* Opposite Angles NOT \approx * NO Right angles</td> </tr> </table>	Sides	Angles	* 1 pair of parallel sides * No Lines of symmetry	* Opposite Angles NOT \approx * NO Right angles
Sides	Angles					
* 1 pair of parallel sides * No Lines of symmetry	* Opposite Angles NOT \approx * NO Right angles					
	Rhombus: - Quadrilateral - Parallelogram	<table border="1"> <tr> <th>Sides</th> <th>Angles</th> </tr> <tr> <td>- All 4 sides \approx - opposites are parallel and \approx</td> <td>* Opposite angles \approx * NO Right angles</td> </tr> </table>	Sides	Angles	- All 4 sides \approx - opposites are parallel and \approx	* Opposite angles \approx * NO Right angles
Sides	Angles					
- All 4 sides \approx - opposites are parallel and \approx	* Opposite angles \approx * NO Right angles					

This week you were introduced to quadrilateral hierarchies. Be sure to review all hierarchies from this week and the unit of triangles.

Parallelogram Properties

Sides	Angles
* 2-pairs of parallel sides * Opposite sides are \approx * NO Lines of Symmetry	* NO Right angles * Opposite angles \approx