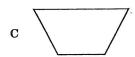
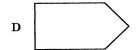
50L 7.9

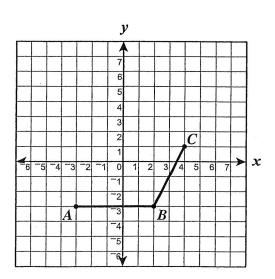
Which polygon is *not* a quadrilateral?







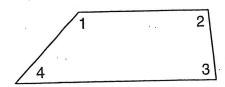




Points A, B, and C are vertices of a parallelogram. What are the coordinates of the fourth vertex?

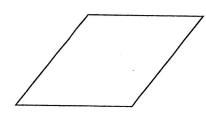
- (0, 0)
- (0, 1)
- $(^{-}1, 1)$
- (-1, -1)

Look at the angles in this quadrilateral.



Which angle measure is closest to 48°?

- A ∠1
- **B** ∠2
- C ∠3
- **D** ∠4



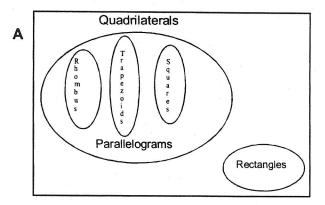
If all sides of the polygon pictured are equal in length, the polygon is most likely a —

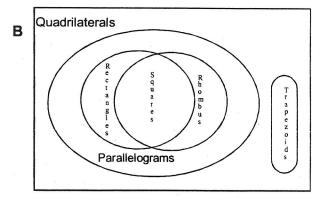
square rhombus rectangle nonagon

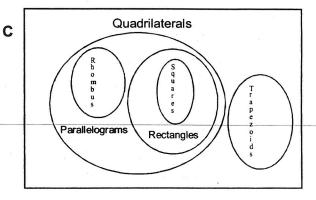
SOL 7.10

SOL 7,9

- 1. Which can NOT be classified as a parallelogram?
- A rhombus
- **B** rectangle
- C square
- **D** trapezoid
- 2. Which statement is false?
- A A trapezoid has only one pair of parallel sides.
- **B** A rectangle is always a square.
- C A parallelogram is always a quadrilateral.
- D A square is always a rhombus.
- 3. Which Venn diagram on the right correctly shows the relationship between quadrilaterals, parallelograms, rhombuses, squares, rectangles, and trapezoids?





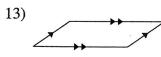


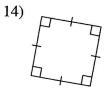
Quadrilaterals

T
T
a
P
c
z
o
i
d
Parallelograms

Rectangles

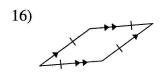
Rectangles



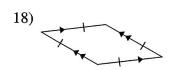


Date______ Period____

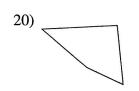
15)



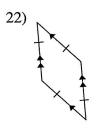
17)



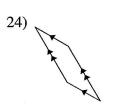
19)



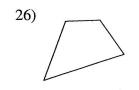
21)



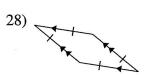
23)



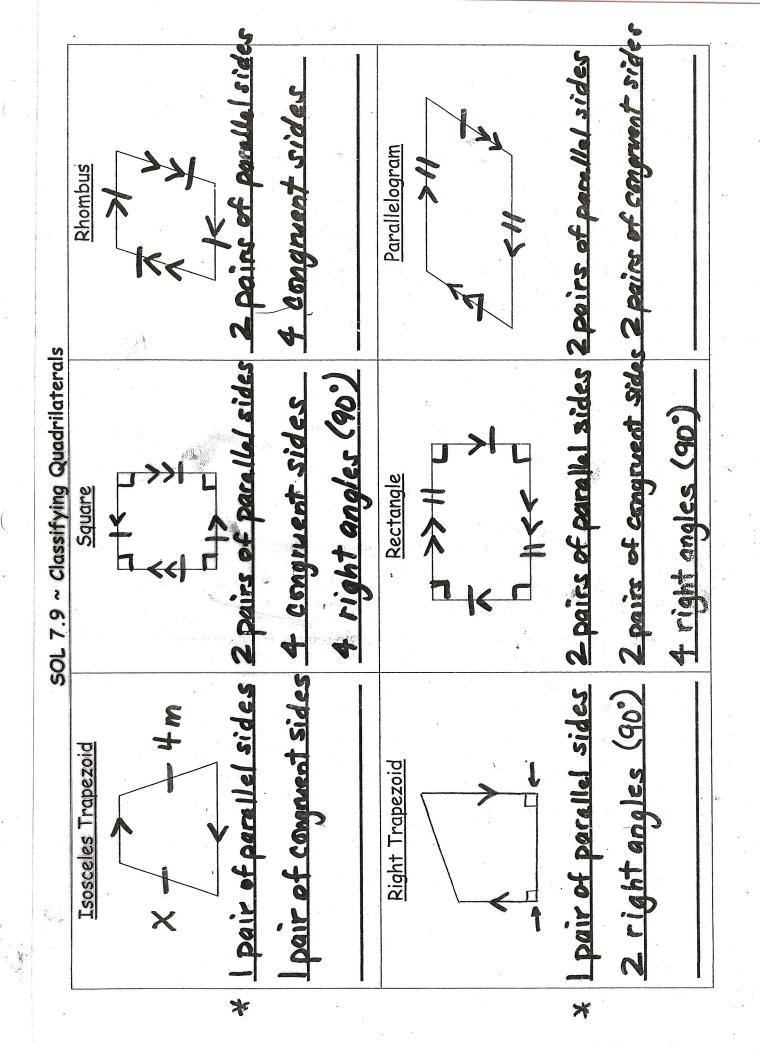
25)



27)



Parallelogram Rhombus SOL 7.9 ~ Classifying Quadrilaterals Rectangle Square **Isosceles** Trapezoid Right Trapezoid



| Name [| Date | | Class | |
|--------|------|--|-------|--|
|--------|------|--|-------|--|

LESSON Reteach

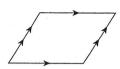
8-7 Classifying Quadrilaterals

Quadrilaterals are polygons that have 4 sides. In the figures below, arrows are used to indicate parallel sides, and tick marks are used to indicate congruent sides.

 A trapezoid is a quadrilateral with only one pair of parallel sides.



• A parallelogram is a quadrilateral with two pairs of parallel sides.



 A rectangle is a parallelogram with all four angles congruent.



 A rhombus is a parallelogram with all four sides congruent.



 A square is a rectangle with all four sides congruent.



- Use the figures to complete the statements.
- **1.** The figure is a _____ since it has ____ pair of parallel sides.



2. The figure is a _____ and a ____ since it has ____ pair(s) of parallel sides, and ____ sides are congruent.



and a _____ and a ____ since it has ____ pair(s) of parallel sides, ____ sides are congruent.



| Name | Date | Class |
|---|-------------------|-------------------------|
| LESSON Practice A | | · · · |
| 8-7 Classifying Quadrilaterals | | |
| 1. List the six major special quadrilaterals. | | * |
| | * | · |
| Give all of the names that apply to each q | uadrilateral. | |
| 2. 3. | 4. | |
| | | |
| | | ; |
| | _ | |
| Give the name that best describes each q | uadrilateral. | |
| 5. 6. | 7. | |
| Draw each figure. If it is not possible to d | raw. explain why. | |
| 8. A rhombus that is also a square. | | at is also a rectangle. |
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| | | |
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Quadrilaterals

Reporting category

Geometry

Overview

Students design a Venn diagram to show the relationship between

the quadrilaterals.

Related Standard of Learning

7.9

Objectives

- The student will identify quadrilaterals.
- The student will compare and contrast attributes of the quadrilaterals.

Materials needed

- Construction paper
- Scissors
- Markers

Instructional activity

Activity A

- 1. Have students describe the difference between a parallelogram and a rectangle by describing their opposite sides, their angles, and the parallel nature of their sides. Have students draw and cut out an example of each shape, writing its characteristics on it. Make sure the wording is correct.
- 2. Have the students compare the rhombus and square, following the same procedures.
- 3. Then have them compare the trapezoids (right and isosceles), using the same procedures.
- 4. Point out to the students that they have described each shape according to its sides and angles. This gives them their own visuals for understanding quadrilaterals.

Activity B

- 1. Have students compare and contrast quadrilaterals. Using the models from the previous activity, have students make duplicate copies of the quadrilaterals. Have students place a quadrilateral on top of the original set that matches the description. Emphasize the vocabulary. Emphasize that the square is a special type of rhombus. Emphasize the term *right angle* for square. This leads the students into making the Venn diagram.
- 2. Make the Venn diagram using a similar layout from the previous activity.
- 3. Make a mobile showing the quadrilateral relationships.

Sample assessment

Observe student work as they work with quadrilaterals.

Follow-up/extension

- Have students make a polygon picture book, and have them label the characteristics of all polygons, quadrilaterals, and triangles.
- This picture book can be a family album or a design of a city. Encourage students to be creative.

