

Math 7 Test
SOL 7.7—Quadrilaterals

Name: _____

- _____ 1. Which of these quadrilaterals cannot be a parallelogram?
A. rhombus B. rectangle C. trapezoid D. square
- _____ 2. Which quadrilaterals have four equal sides?
A. trapezoid, square B. rectangle, square
C. rectangle, square, rhombus D. square, rhombus
- _____ 3. Which of these statements describes a similarity between a rectangle and a trapezoid?
A. They are both parallelograms. B. They are both quadrilaterals.
C. They both have 4 congruent sides. D. They both have 4 right angles.
- _____ 4. Which statement is true?
A. All rectangles are squares. B. Squares and rectangles have 4 congruent sides.
C. Squares and rectangles are quadrilaterals. D. Squares and rectangles are both trapezoids.
- _____ 5. Which statement is true?
A. All quadrilaterals are squares. B. All squares are rectangles.
C. All rectangles are squares. D. All rhombuses are squares.
- _____ 6. Which of these statements is always true?
A. Squares have four equal sides.
B. Rectangles have four equal sides.
C. Both squares and rectangles have four equal sides.
D. Neither squares nor rectangles have four equal sides.
- _____ 7. Which of these figures can never be a rectangle?
A. trapezoid B. square C. parallelogram D. quadrilateral
- _____ 8. Which figure is the same as a parallelogram with four right angles?
A. rhombus B. trapezoid C. hexagon D. rectangle
- _____ 9. Which quadrilateral has only one pair of parallel sides?
A. rectangle B. trapezoid C. rhombus D. square
- _____ 10. Which figure must be a rectangle?
A. rhombus B. trapezoid C. square D. parallelogram

Use the following to answer questions 8-10.

1. square 2. rectangle 3. parallelogram 4. trapezoid 5. rhombus

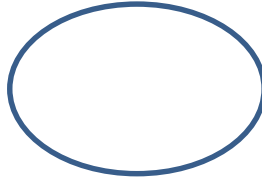
- _____ 11. Which of these quadrilaterals must have 4 congruent sides?
A. 1,5 B. 1,2 C. 1,3 D. 1
- _____ 12. Which of these quadrilaterals have at least 2 congruent sides?
A. 3,4,5 B. 1,2,3,5 C. 2,3,4,5 D. 4,5
- _____ 13. Which of these quadrilaterals may not have any congruent sides?
A. 3,5 B. 4,5 C. 4 D. 3,4,5

Answer the following.

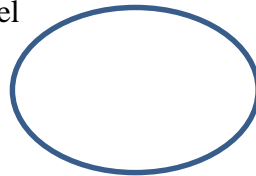
14. John is cutting out a shape that has four congruent sides. One set of opposite angles has measures of 60° and another set of opposite angles with measures of 120° each. What is the specific name for the quadrilateral shape John is cutting out? (hint—sketch a figure)

15. Sketch each of the following quadrilaterals in the circle and write the best name for each.

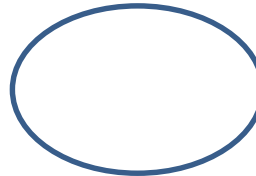
a) A quadrilateral with exactly one pair of parallel sides and one right angle



b) A quadrilateral with opposite sides parallel and congruent, and four right angles

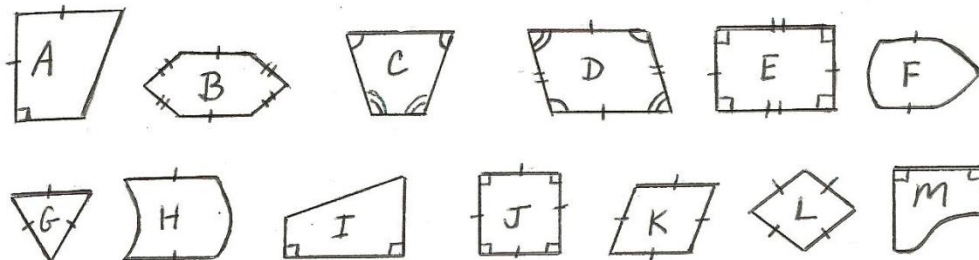


c) Parallelogram with four congruent sides and opposite angles congruent



16. Describe how a *trapezoid* and a *parallelogram* are different.

17. Describe what makes a *rhombus* different from a *square*.



From the figures above, list the letter(s) for each of the following.

18. trapezoid _____

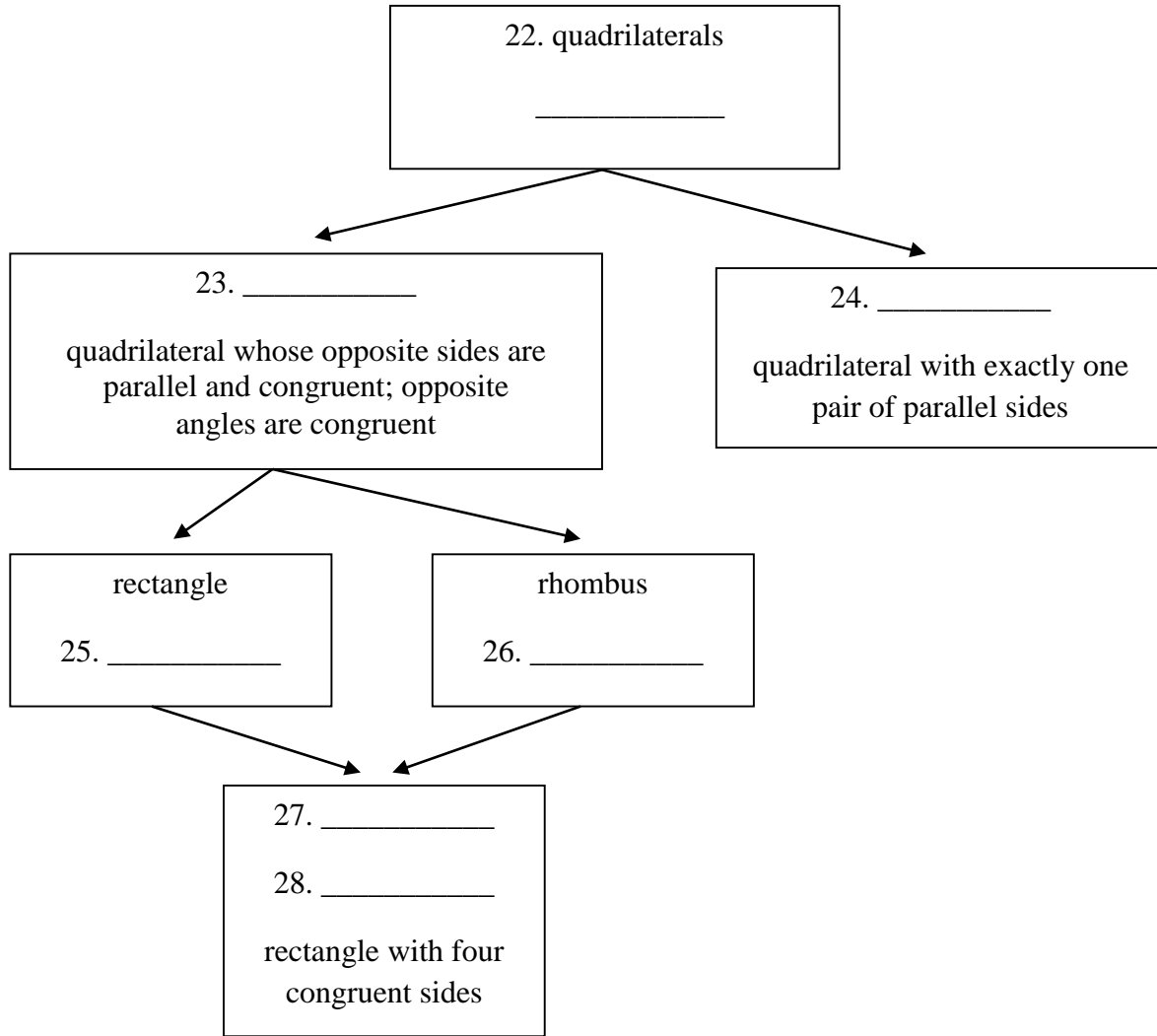
19. parallelogram _____

20. rhombus _____

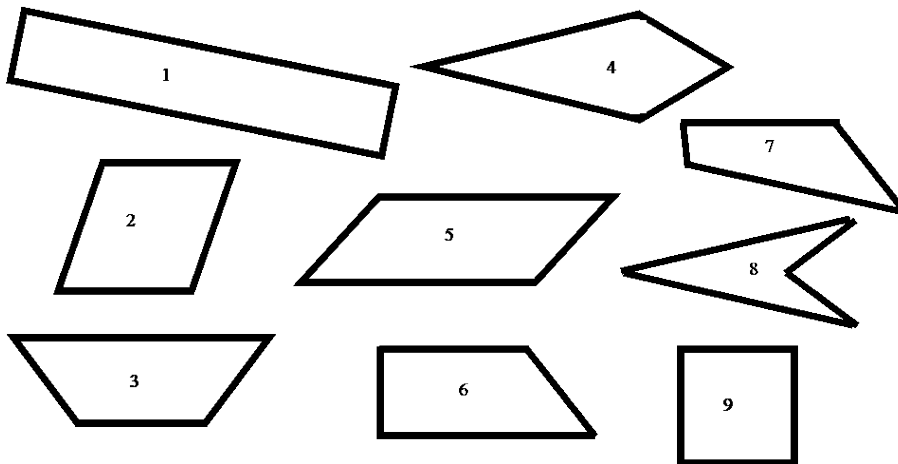
21. rectangle _____

Complete the following chart using the words/phrases below. Place letters in the correct square.

- A. square
- B. parallelogram
- C. trapezoid
- D. four-sided closed plane figure
- E. parallelogram with four congruent sides
- F. rhombus with four right angles
- G. parallelogram with four right angles



29. Put the number of each figure into **all** of the classification boxes it belongs to. Some figures will be used more than once.



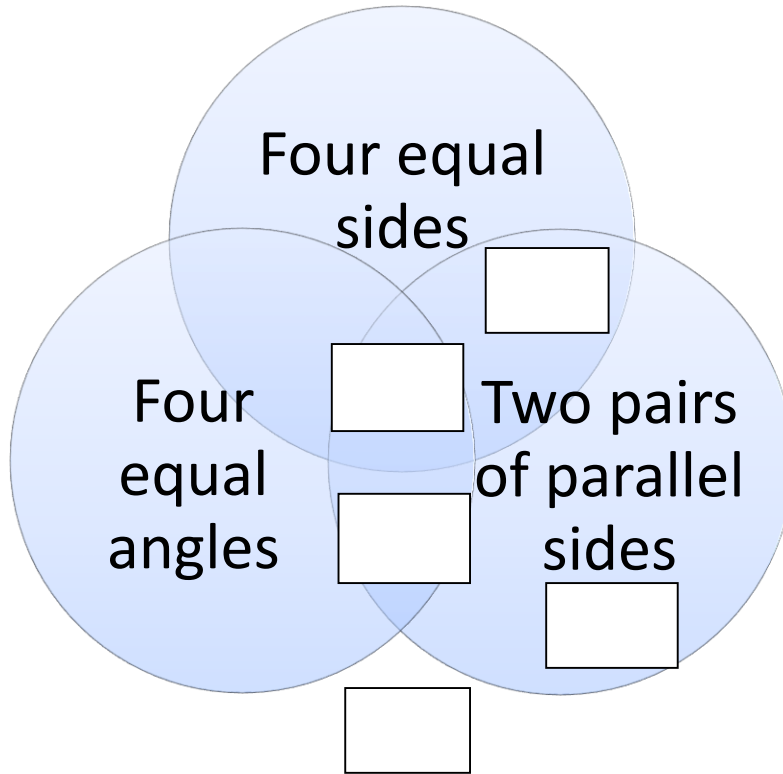
quadrilateral
parallelogram
rectangle
rhombus
square
trapezoid

30. Complete the Venn Diagram by placing the letter of each of the quadrilaterals in the correct box.

- A. square
- D. rhombus

- B. parallelogram
- E. trapezoid

- C. rectangle



Math SOL 7.7—Quadrilaterals
Answer Key

1. C
2. D
3. B
4. C
5. B
6. A
7. A
8. D
9. B
10. C
11. A
12. B
13. C
14. Rhombus
15. a) trapezoid; drawing may vary
 b) rectangle; drawing may vary
 c) rhombus; drawing may vary
16. Answers may vary
17. Answers may vary
18. A, C, I
19. D, E, J, K, L
20. J, K, L
21. E, J
22. D
23. B
24. C
25. G
26. E
27. A
28. F
29. quadrilateral: 1, 2, 3, 4, 5, 6, 7, 8, 9
 parallelogram: 1, 2, 5, 9
 rectangle: 1, 9
 rhombus: 2, 9
 square: 9
 trapezoid: 3, 6

30.

