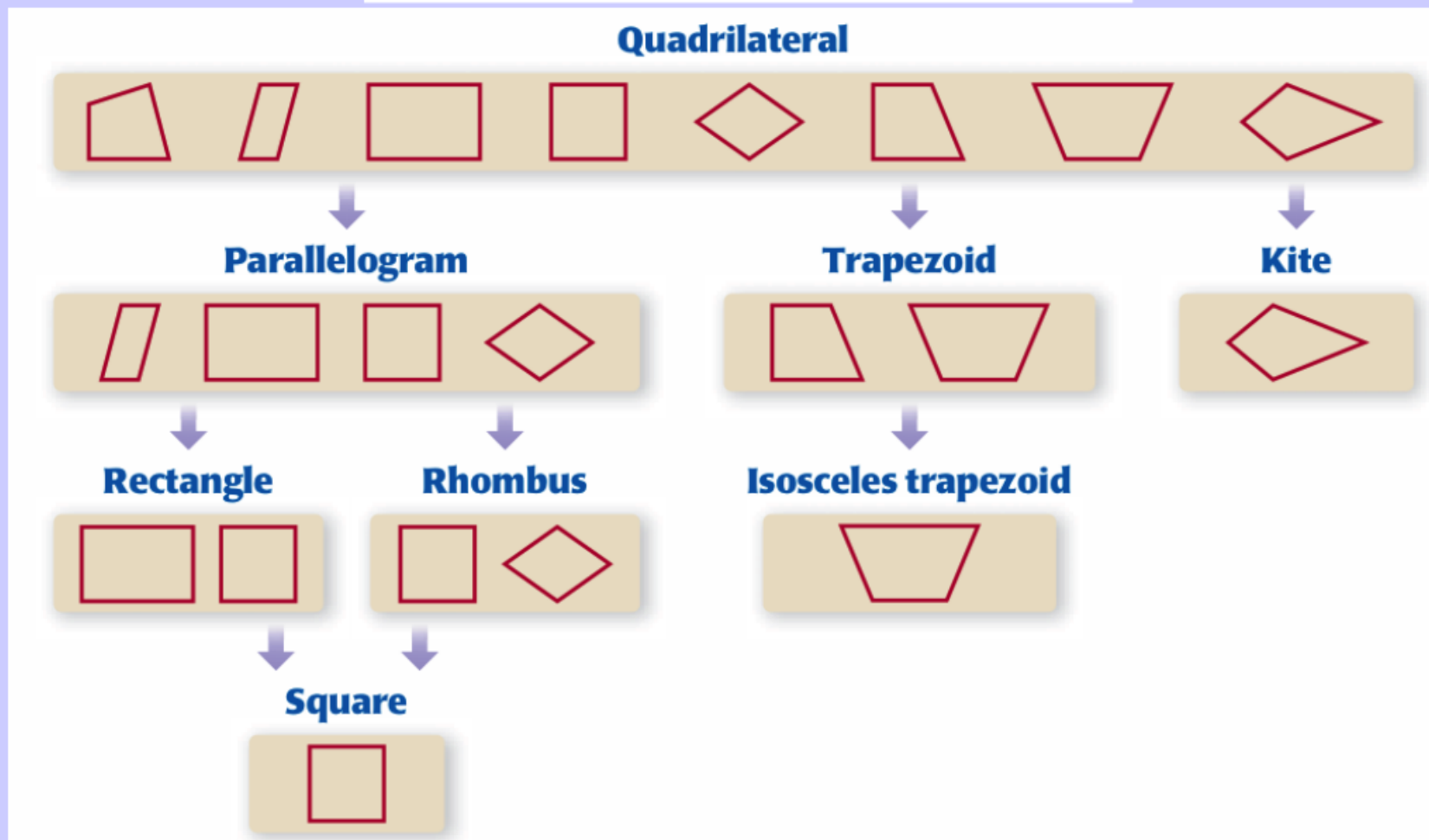


8.6 Identify Special Quadrilaterals



EXAMPLE 2 Standardized Test Practice

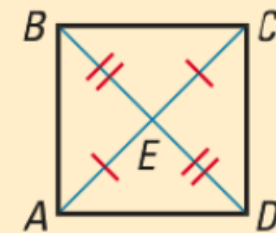
What is the most specific name for quadrilateral $ABCD$?

(A) Parallelogram

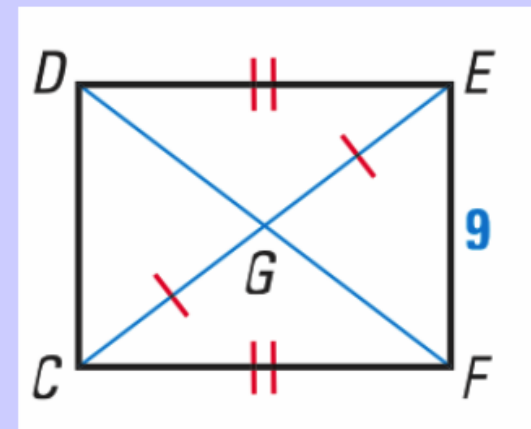
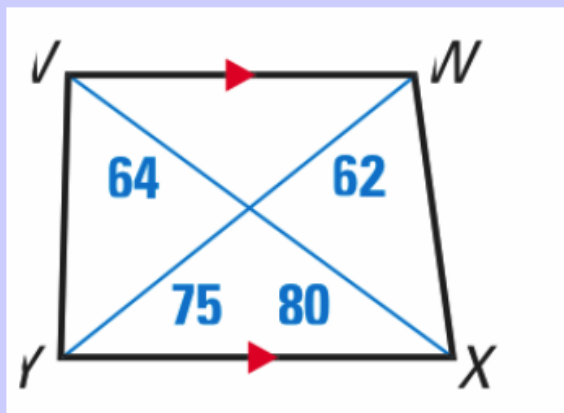
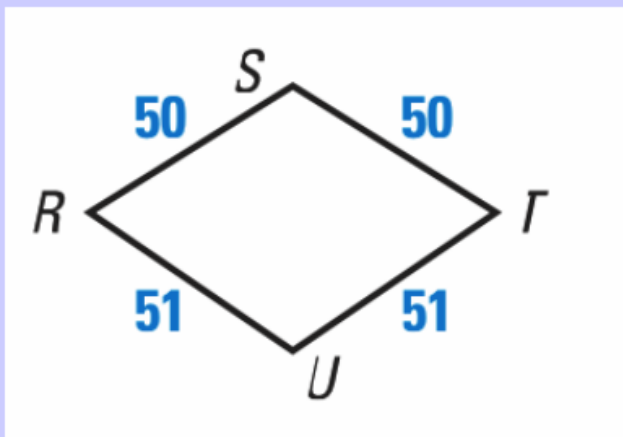
(B) Rhombus

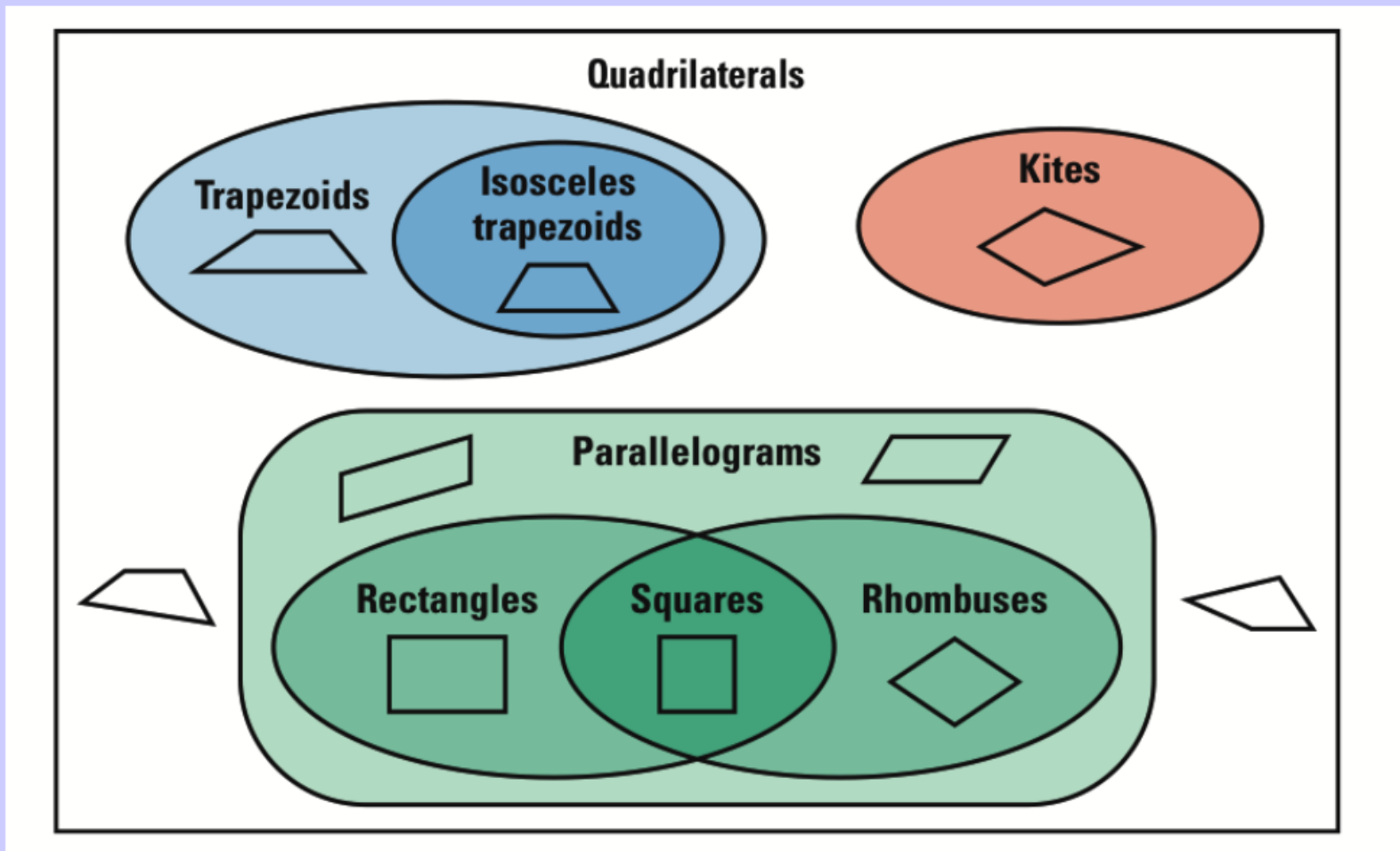
(C) Square

(D) Rectangle



Give the most specific name for the quadrilateral. *Explain your reasoning.*





Match the property on the left with all of the quadrilaterals that have the property.

- | | |
|--|-------------------------------|
| 1. Both pairs of opposite sides are parallel. | A. Parallelogram |
| 2. Both pairs of opposite sides are congruent. | B. Rectangle |
| 3. Both pairs of opposite angles are congruent. | C. Rhombus |
| 4. Exactly one pair of opposite sides are parallel. | D. Square |
| 5. Exactly one pair of opposite sides are congruent. | E. Trapezoid |
| 6. Exactly one pair of opposite angles are congruent. | F. Isosceles Trapezoid |
| 7. Diagonals are congruent. | G. Kite |
| 8. Diagonals are perpendicular. | |

Assignment:

8.6 WS

LESSON
8.6
Practice B
For use with pages 552–557

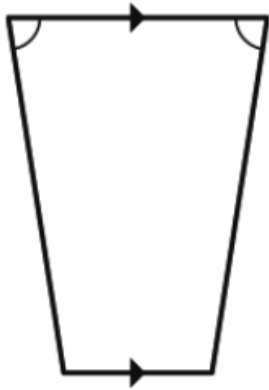
Complete the chart. Put an X in the box if the shape *always* has the given property.

	Property	\square	Rectangle	Rhombus	Square	Kite	Trapezoid
1.	Both pairs of opposite sides are congruent.						
2.	Both pairs of opposite angles are congruent.						
3.	Exactly one pair of opposite sides are congruent.						

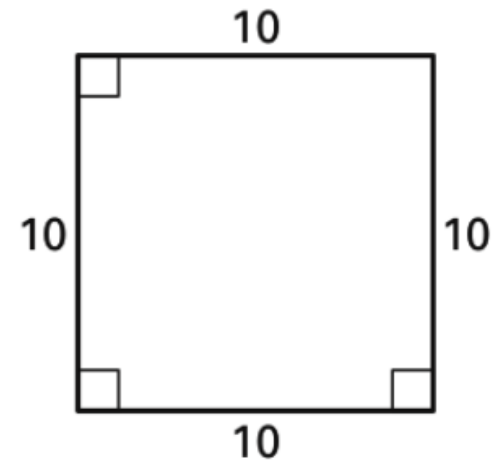
4.	Exactly one pair of opposite sides are parallel.						
5.	Exactly one pair of opposite angles are congruent.						
6.	Consecutive angles are supplementary.						

Give the most specific name for the quadrilateral. *Explain.*

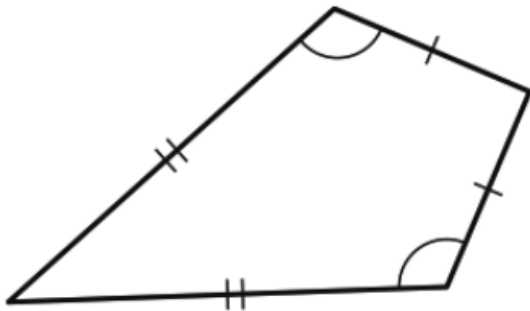
7.



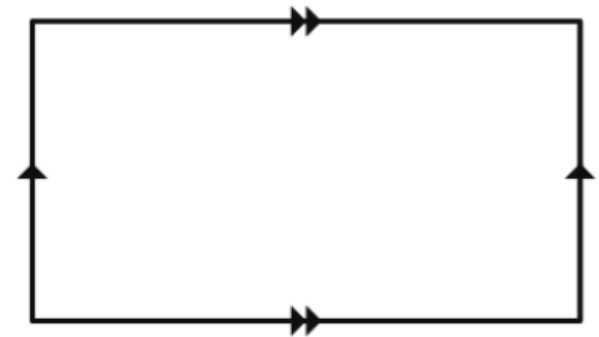
8.



9.

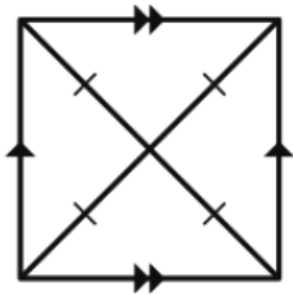


10.

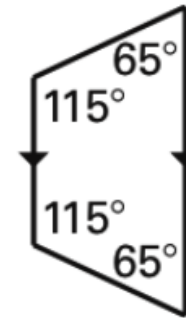


Tell whether enough information is given in the diagram to classify the quadrilateral by the indicated name.

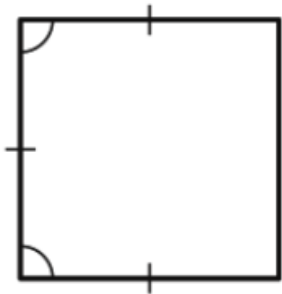
11. Rectangle



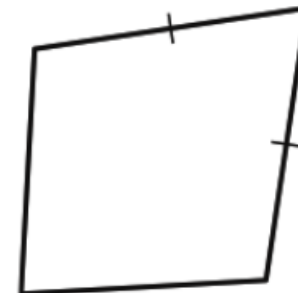
12. Isosceles trapezoid



13. Rhombus

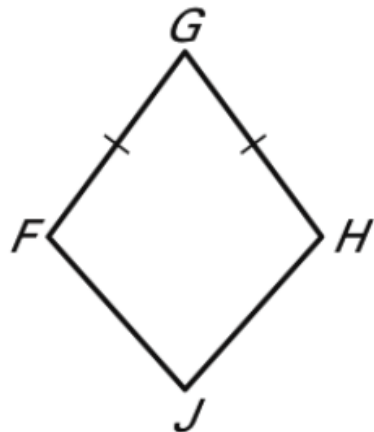


14. Kite

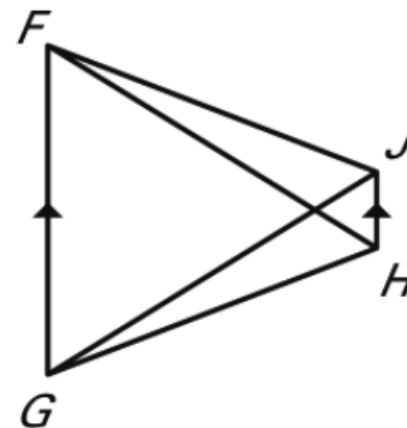


In Exercises 17 and 18, which two segments or angles must be congruent so that you can prove that $FGHJ$ is the indicated quadrilateral? There may be more than one right answer.

17. Kite



18. Isosceles trapezoid



19. Picture Frame What type of special quadrilateral is the stand of the picture frame at the right?



20. Painting A painter uses a quadrilateral shaped piece of canvas. The artist begins by painting lines that represent the diagonals of the canvas. If the lengths of the painted lines are congruent, what types of quadrilaterals could represent the shape of the canvas? If the painted lines are also perpendicular, what type of quadrilateral represents the shape of the canvas?