

LESSON 8.6 Practice
For use with pages 552-557

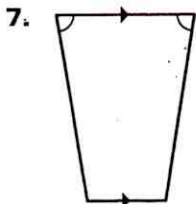
Complete the chart. Put an X in the box if the shape always has the given property.

↗ // - gram

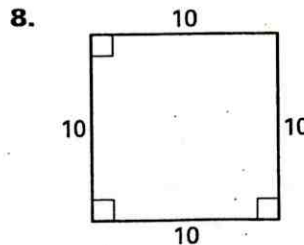
Property	<input type="checkbox"/>	Rectangle	Rhombus	Square	Kite	Trapezoid
1. Both pairs of opposite sides are congruent.	X	X	X	X		
2. Both pairs of opposite angles are congruent.	X	X	X	X		
3. Exactly one pair of opposite sides are congruent.						
4. Exactly one pair of opposite sides are parallel.						X
5. Exactly one pair of opposite angles are congruent.					X	
6. Consecutive angles are supplementary.	X	X	X	X		

isosceles Trapezoid

Give the most specific name for the quadrilateral. Explain.



Isosceles trapezoid

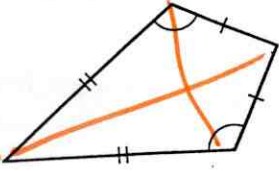


Square

LESSON
8.6

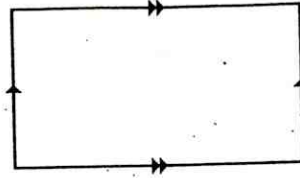
Practice *continued*
For use with pages 552-557

9.



no kite

10.

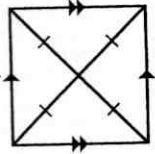


11-gram

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

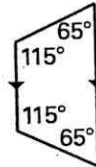
11. Rectangle

yes



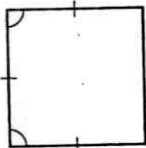
12. Isosceles trapezoid

yes



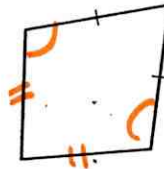
13. Rhombus

NO



14. Kite

NO



Points *A*, *B*, *C*, and *D* are the vertices of a quadrilateral. Give the most specific name for *ABCD*. Justify your answer.

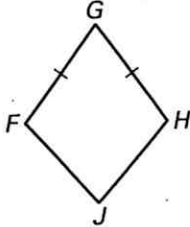
15. $A(2, 2), B(4, 6), C(6, 5), D(4, 1)$

16. $A(-5, 1), B(0, -6), C(5, 1), D(0, 3)$

LESSON 8.6 Practice *continued*
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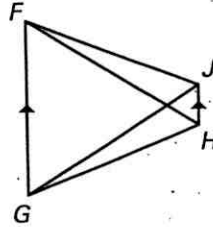
In Exercises 17 and 18, which two segments or angles must be congruent so that you can prove that $FGHJ$ is the indicated quadrilateral? There may be more than one right answer.

17. Kite



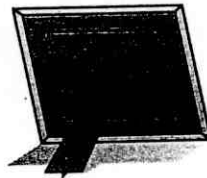
$\angle F \cong \angle H$
 $\overline{FG} \cong \overline{JH}$

18. Isosceles trapezoid



$\overline{FJ} \cong \overline{GH}$ $\angle F \cong \angle G$ or $\angle J \cong \angle H$
 $\overline{FH} \cong \overline{GJ}$

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?