

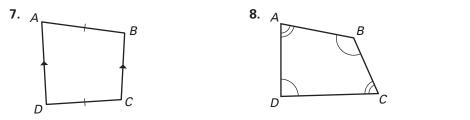
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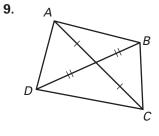
Practice B For use with pages 364–370

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

Property	Rectangle	Rhombus	Square	Trapezoid	Kite
1 . Both pairs of opposite					
sides are congruent.					
2. Diagonals are					
congruent.					
3. Diagonals are					
perpendicular.					
4. Diagonals bisect					
one another.					
5. Consecutive angles are					
supplementary.					
6. Both pairs of opposite					
angles are congruent.					

What quadrilaterals meet the conditions shown? *ABCD* is not drawn to scale.





Which two segments or angles must be congruent to enable you to prove *ABCD* is the given quadrilateral? Explain your reasoning. There may be more than one right answer.

In Exercises 13–15, what kind of quadrilateral is *PQRS*? Justify your answer.

- **13.** P(5, 4), Q(3, -6), R(0, -10), S(2, 0)
- **14.** P(4, 8), Q(0, 9), R(-2, 1), S(2, 0)
- **15.** *P*(1, 5), *Q*(8, 6), *R*(15, 5), *S*(8, 4)
- **16.** Use the quadrilateral in Exercise 15. Find the midpoint of each side. Connect the midpoints to form a new quadrilateral. What kind of quadrilateral is formed?

Lesson 6.6