

Special Quadrilaterals

Many special **quadrilaterals** have special properties.

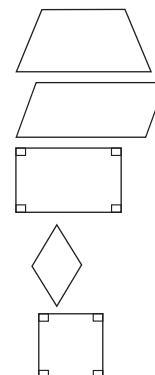
A **trapezoid** has exactly one pair of parallel sides.

A **parallelogram** has two pairs of equal parallel sides.




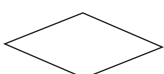
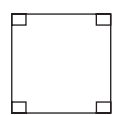
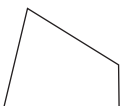
A **rectangle** is a parallelogram with 4 right angles.

A **rhombus** is a parallelogram with 4 equal sides.

A **square** is a parallelogram with 4 right angles and 4 equal sides.




Identify each polygon. Describe each polygon by as many names as possible.


1.  _____
2.  _____
3.  _____
4.  _____
5.  _____
6.  _____

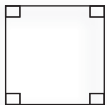
7. **Writing to Explain** Marvin says that all rhombuses are squares. Aretha says that all squares are rhombuses. Who is correct? Explain.

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In 1–6, classify each polygon in as many ways as possible.


1.  _____

2.  _____

3.  _____

4.  _____

5.  _____

6.  _____

7. Draw a quadrilateral with 1 pair of parallel sides. What special quadrilateral have you drawn?

8. A parallelogram has one side that is 7 inches and one side that is 11 inches. What is the perimeter of the parallelogram?

9. Which shows the most likely side lengths for a parallelogram?

- A** 2, 2, 6, 2 **B** 2, 6, 2, 6 **C** 2, 2, 3, 6 **D** 2, 6, 6, 6

10. **Writing to Explain** What characteristics help you tell the difference between a rhombus and a rectangle? Explain.
