

Special quadrilaterals

name: _____

Of the named quadrilaterals (square, rectangle, rhombus, parallelogram, kite and trapezoid):

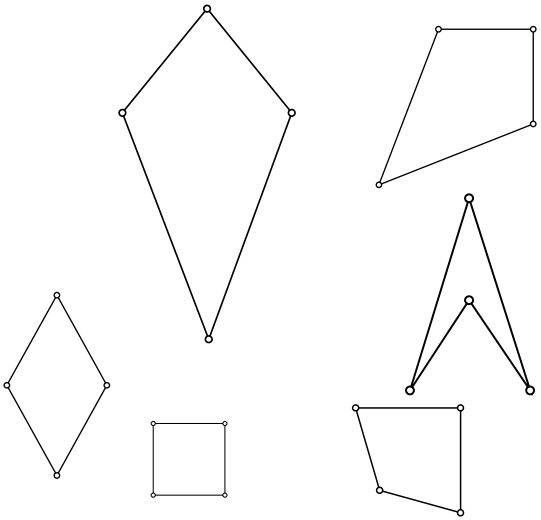
1. Which of those shapes can make a square?
2. Which of the shapes always have right angles?
3. Which of the shapes always have all of their side lengths the same?
4. Which of the shapes always have 2 pairs of parallel sides?
5. Which of the shapes can be concave?
6. Which of the shapes can have 4 different side lengths?

Diagonals

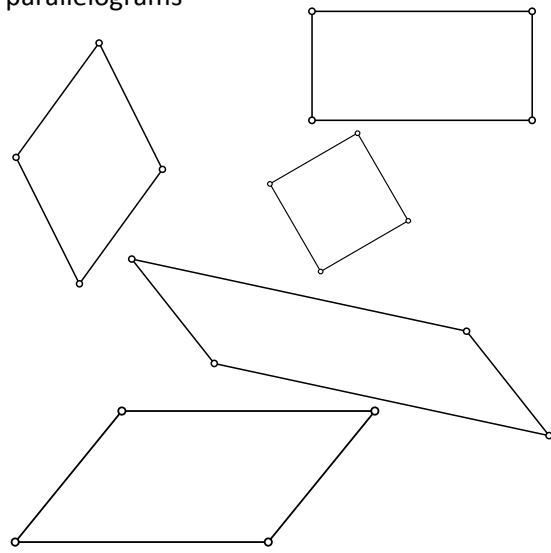
<p>17. Draw 2 lines that are the same length, intersect at their midpoints and meet at a 90° angle. Connect the corners (endpoints of the lines) to make a quadrilateral. What shape did it make?</p>	<p>8. Draw another pair of lines like the first set (same length lines, meet at midpoints), but make the lines meet at a 60° angle (or close). What shape did it make?</p>
<p>9. Draw 2 lines that are different lengths that intersect at their midpoints and make a 90° angle. Connect the corners. What shape did it make?</p>	<p>10. Draw 2 more lines like those in #3 (different length, intersect at midpoints), but make the lines meet at a 60° angle (or close). What shape did it make?</p>

11. Draw in the diagonals of the kites on the next page. If the diagonals don't meet, extend them until they meet. Is there anything special about them?

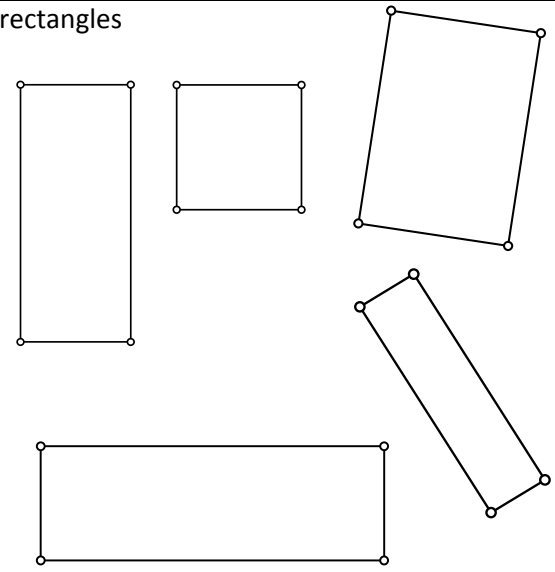
kites



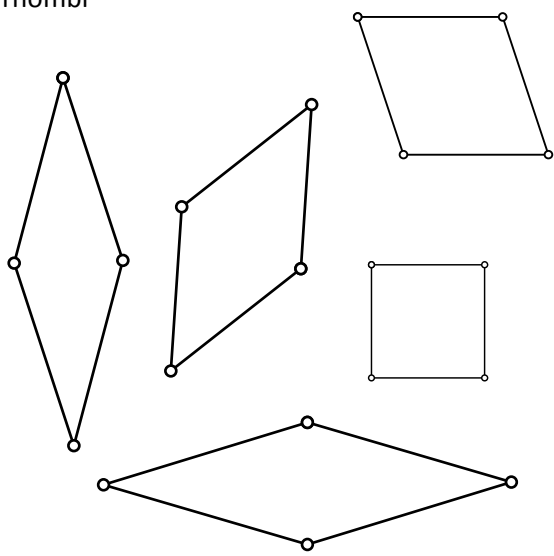
parallelograms



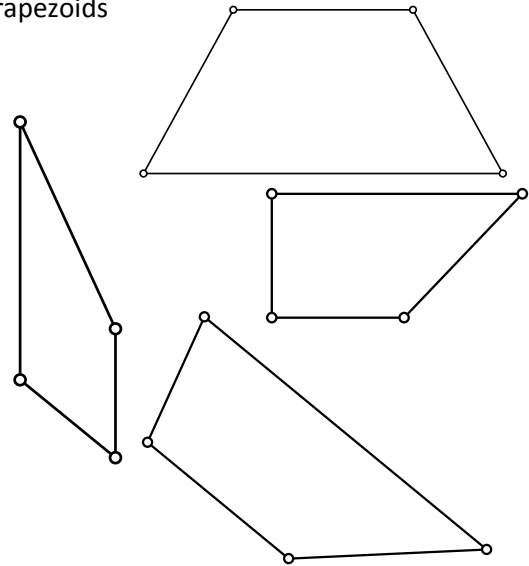
rectangles



rhombi



trapezoids



squares

