

## Activity

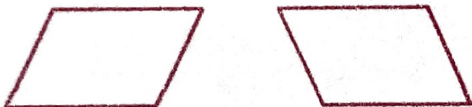
**Materials** ■ quadrilaterals ■ scissors

You can use a Venn diagram to sort quadrilaterals and find out how they are related.

- Draw the diagram below on your MathBoard.
- Cut out the quadrilaterals and sort them into the Venn diagram.
- Record your work by drawing each figure you have placed in the Venn diagram below.

### QUADRILATERALS

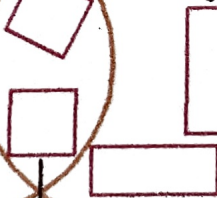
#### Parallelograms



#### Rhombuses



#### Rectangles



#### Squares



#### Trapezoids



Complete the sentences by writing *always*, *sometimes*, or *never*.

A rhombus is sometimes a square.

A parallelogram is sometimes a rectangle.

A rhombus is always a parallelogram.

A trapezoid is never a parallelogram.

A square is always a rhombus.

1. **Explain** why the circle for parallelograms does not intersect the circle for trapezoids.

**Possible answer:** A parallelogram has

2 pairs of parallel sides. A trapezoid

has exactly 1 pair of parallel sides.

2. Draw a quadrilateral with four pairs of perpendicular sides and four congruent sides.

 **Check students' drawings of a square.**