Unit 7, Lesson 5

Trapezoids

Let's explore trapezoids.

Warm-up

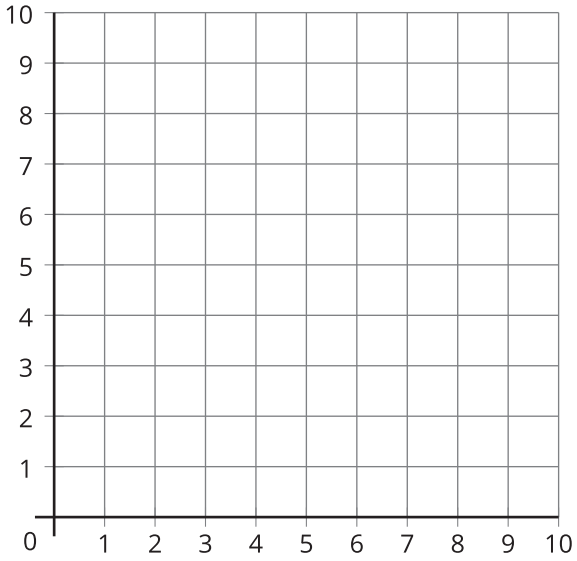
What Do You Know about Trapezoids?

What do you know about trapezoids?

Activity 1

What's a Trapezoid?

1. Draw a trapezoid on this coordinate grid. Label the coordinates of the 4 points you used for the 4 corners of the trapezoid.



2. Is it a square? Rectangle? Rhombus? Parallelogram? Explain your reasoning

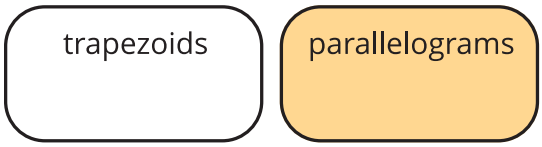
3. Describe a **trapezoid** in your own words. Compare your definition with a partner.

4. Is this shape a trapezoid according to your definition? Explain your reasoning.



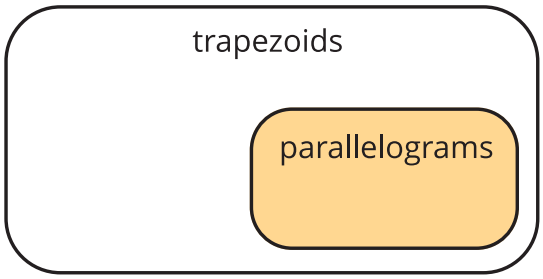
Activity 2

Two Definitions of a Trapezoid



Definition 1

A trapezoid is a quadrilateral that has exactly 1 pair of opposite sides that are parallel.



Definition 2

A trapezoid is a quadrilateral that has at least 1 pair of opposite sides that are parallel.

Which statements go with the first definition? Which statements go with the second definition? Explain or show your reasoning.

1. All parallelograms are trapezoids.

2. No parallelograms are trapezoids.

3. All trapezoids are parallelograms.

4. Some trapezoids are parallelograms.

5. No trapezoids are parallelograms.