# Hierarchy of Quadrilaterals

Let's explore the hierarchy of quadrilaterals.

Warm-up

Notice and Wonder: Squares and Rhombuses

What do you notice? What do you wonder?
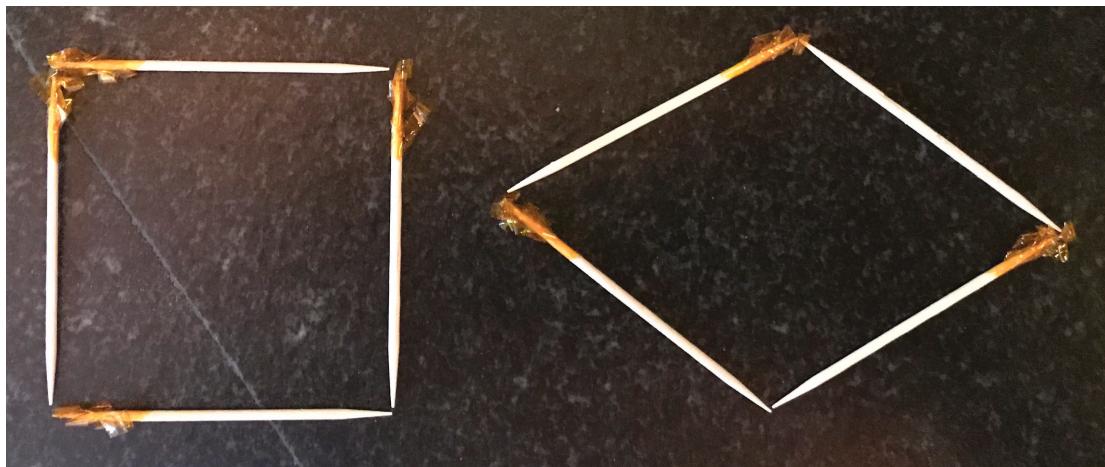
Shapes with Toothpicks

1. Build a square with 4 toothpicks. How do you know it is a square?

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2. Use the same 4 toothpicks to build this shape. What stayed the same? What changed?

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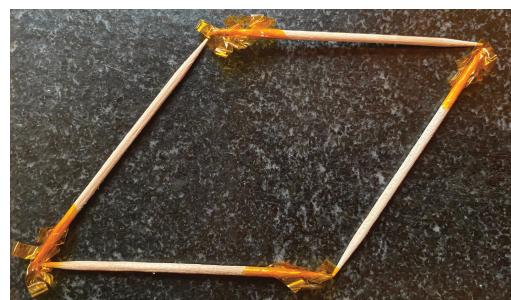
3. Build a rectangle with 6 toothpicks. How do you know it is a rectangle?

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4. Use the same 6 toothpicks to build this shape. What stayed the same? What changed?

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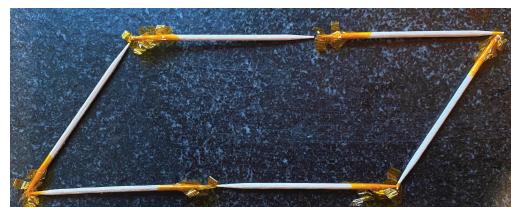
Three Quadrilaterals

1. Draw 3 different quadrilaterals on the grid. At least 1 of them must be a parallelogram.
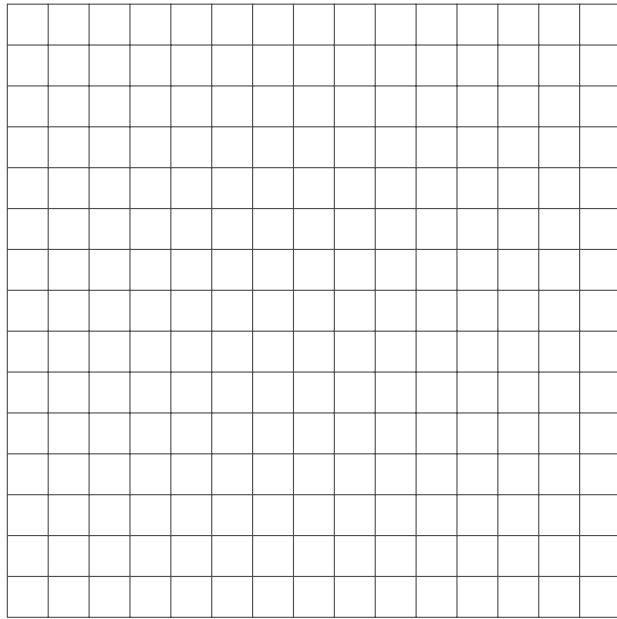
2. For each of your quadrilaterals determine if it is a:

   ◦ Square

   ◦ Rhombus

   ◦ Rectangle

   ◦ Parallelogram

   Explain or show your reasoning.

3. Draw a rhombus that is *not* a square. Explain or show how you know it is a rhombus but *not* a square.

4. Draw a rhombus that is a square. Explain or show how you know it is a rhombus and a square.

5. Diego says that it is impossible to draw a square that is *not* a rhombus. Do you agree with him? Explain or show your reasoning.