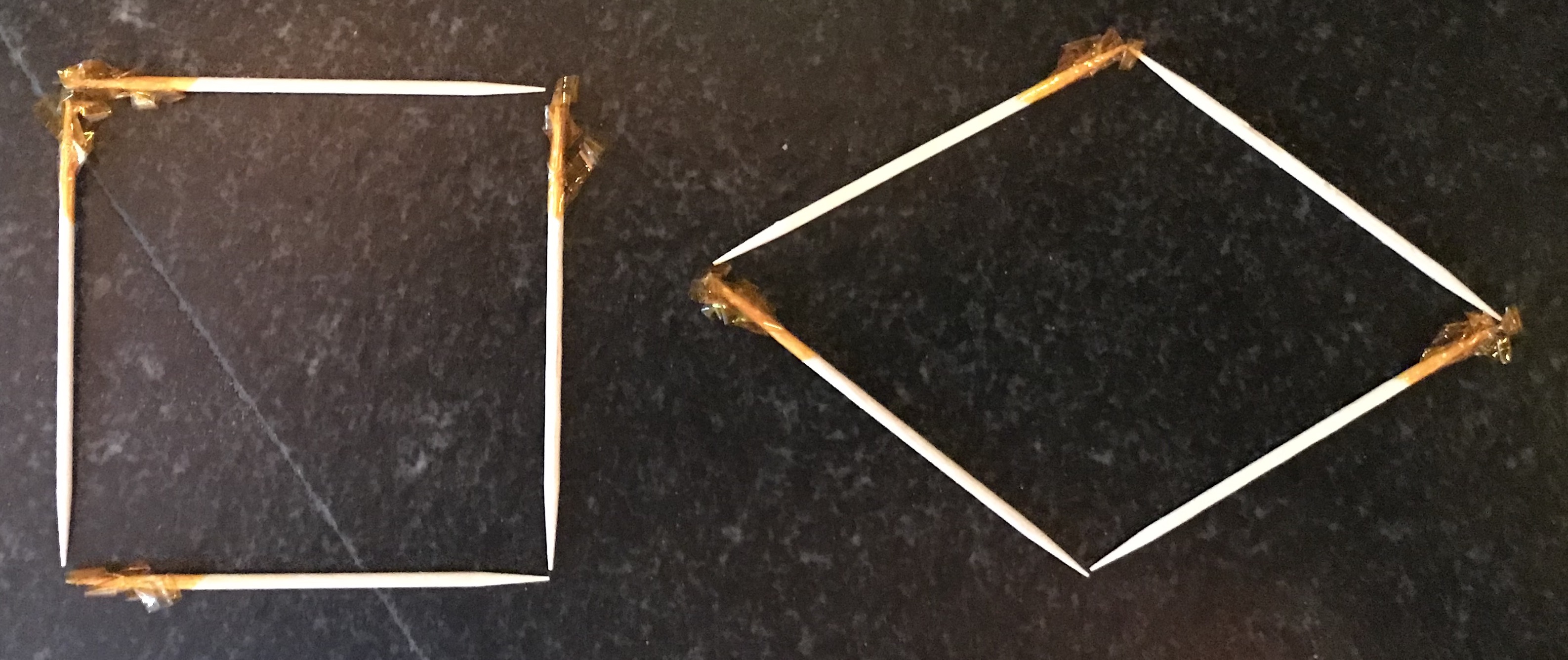
## Lesson 6: Hierarchy of Quadrilaterals

* Let’s explore the hierarchy of quadrilaterals.

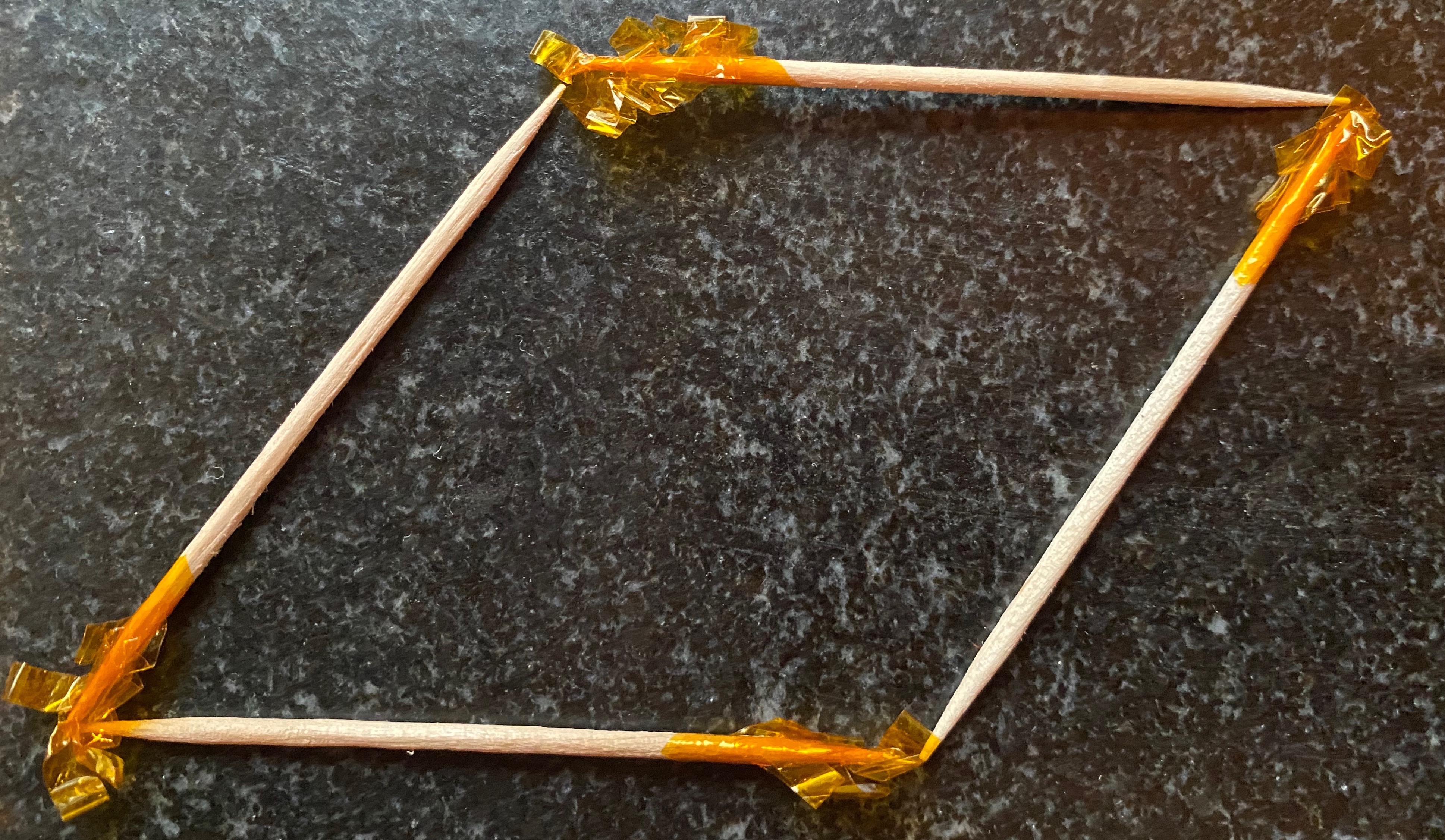
### Warm-up: Notice and Wonder: Squares and Rhombuses

What do you notice? What do you wonder?



### 6.1: Shapes with Toothpicks

1. Build a square with your toothpicks. How do you know it is a square?
2. Use the same four toothpicks to build this shape. What stayed the same? What changed?

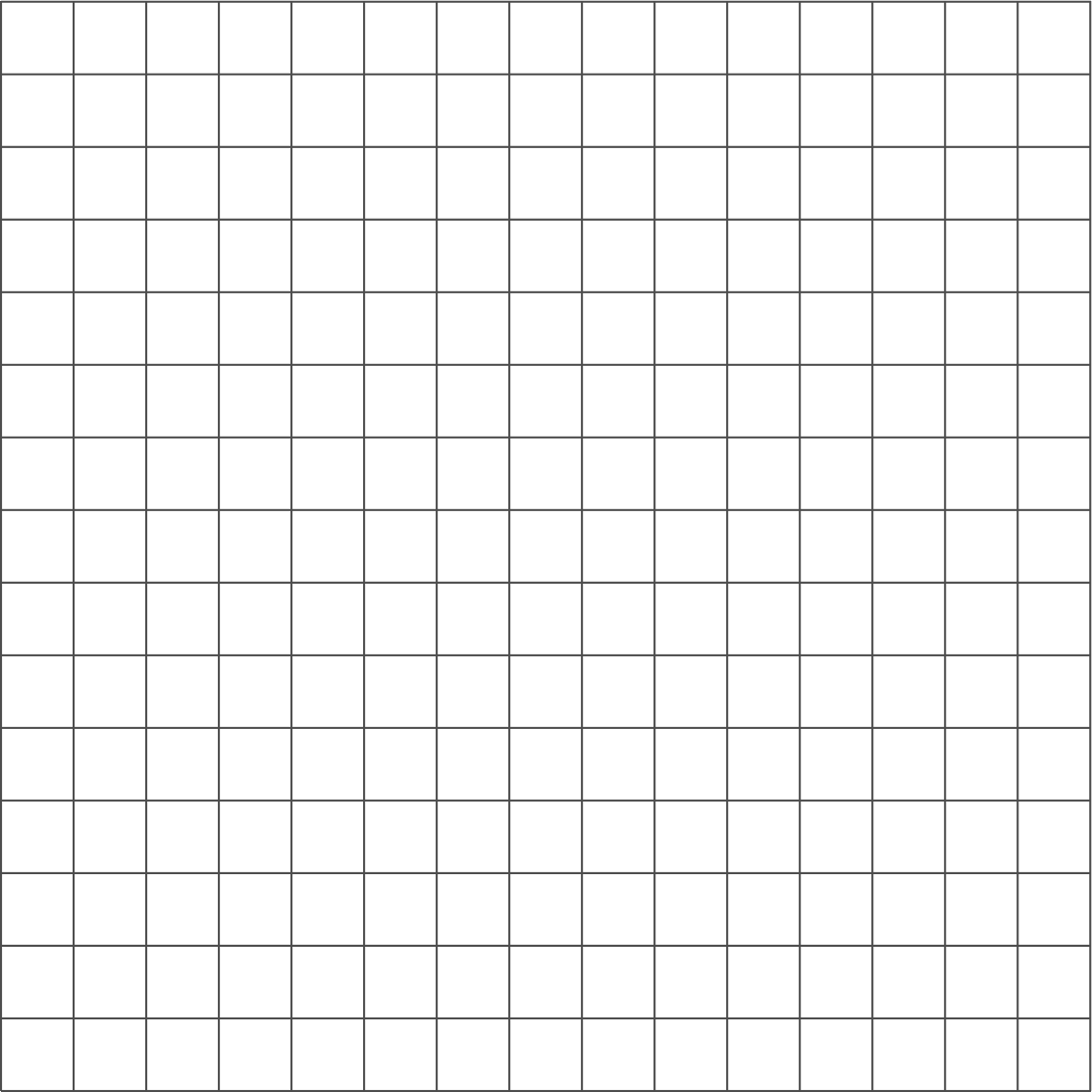
* 

1. Build a rectangle with six toothpicks. How do you know it is a rectangle?
2. Use the same six toothpicks to build this shape. What stayed the same? What changed?

* 

### 6.2: Three Quadrilaterals

1. Draw 3 different quadrilaterals on the grid, making sure at least one of them is a parallelogram.

* 

1. For each of your quadrilaterals determine if it is a:
   * square
   * rhombus
   * rectangle
   * parallelogram

* Explain or show your reasoning.

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



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