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Unit 6, Lesson 3

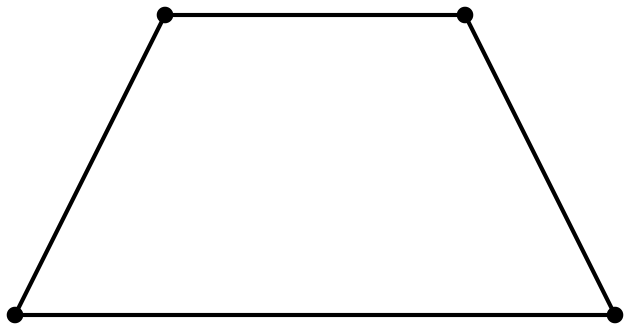
# Specific Side Lengths

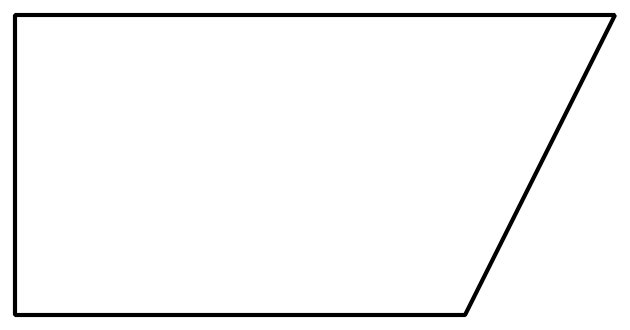
* Let’s find and draw shapes with specific side lengths.

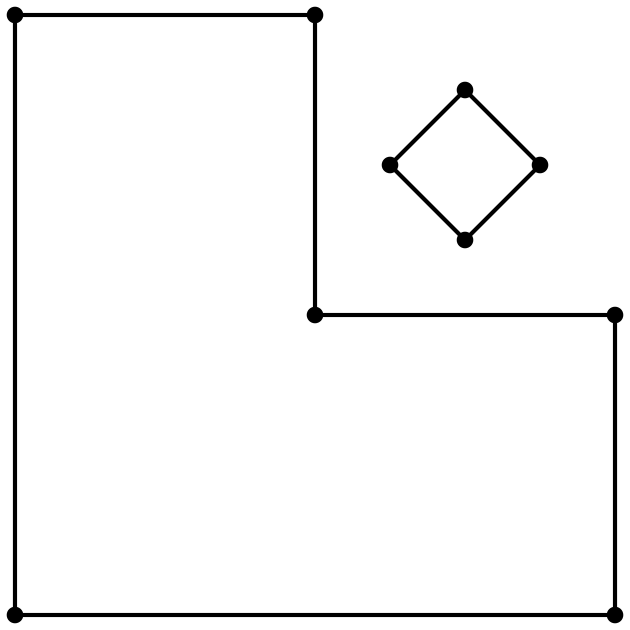
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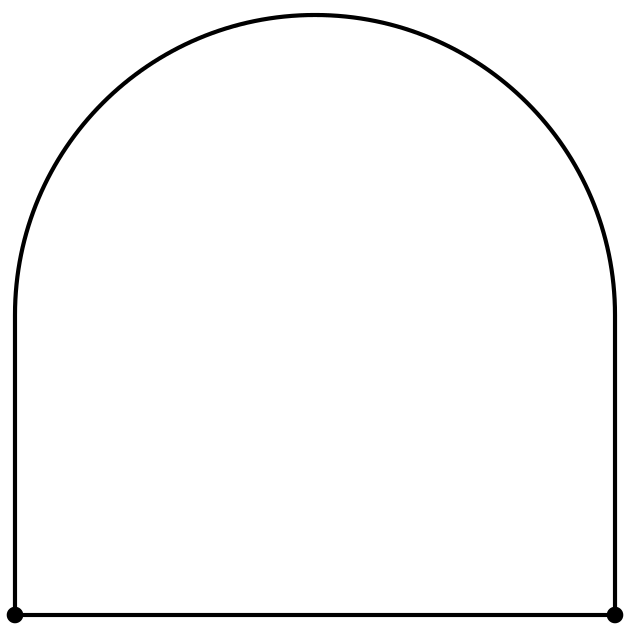
## Warm-up Which Three Go Together: Different Shapes

Which 3 go together?

A

B

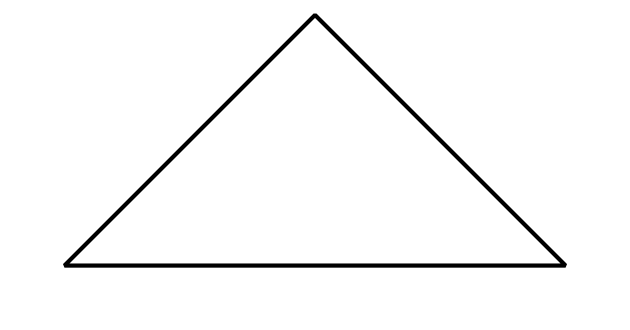
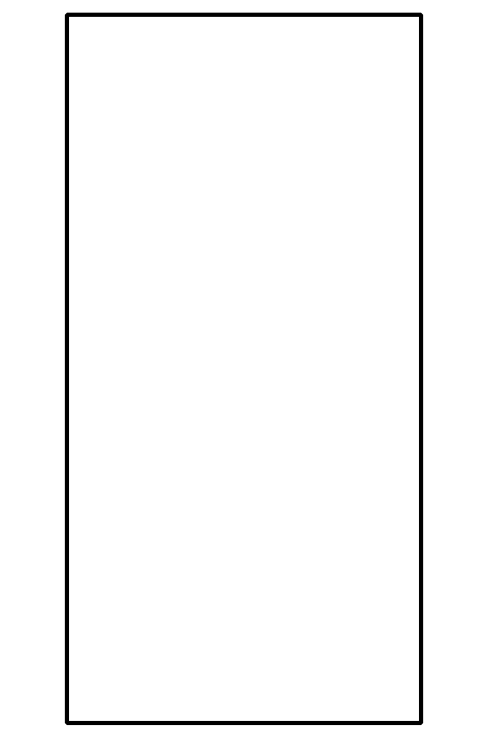
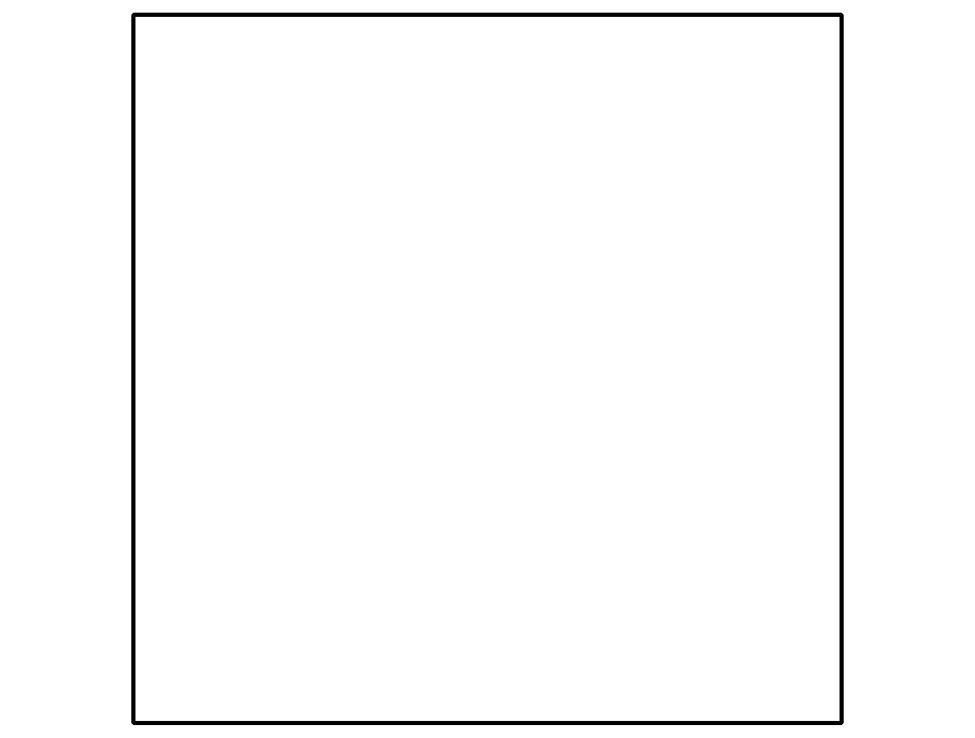
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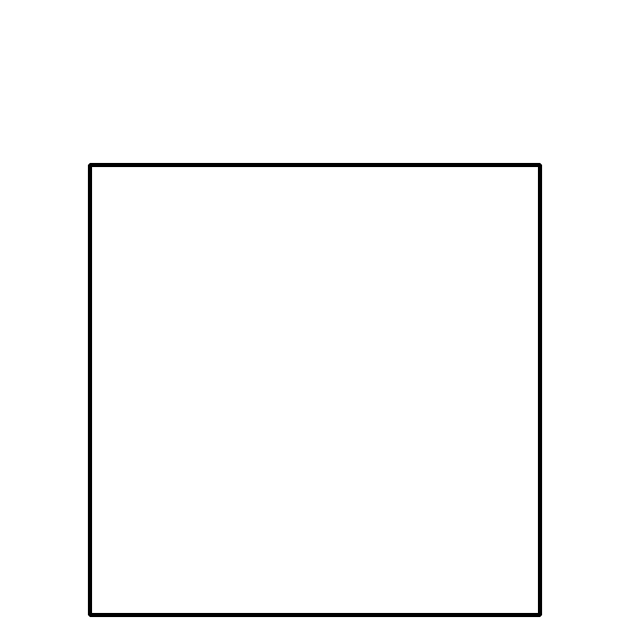
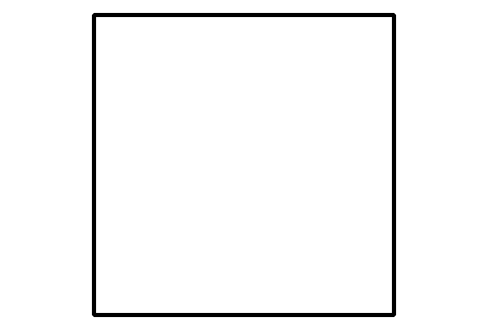
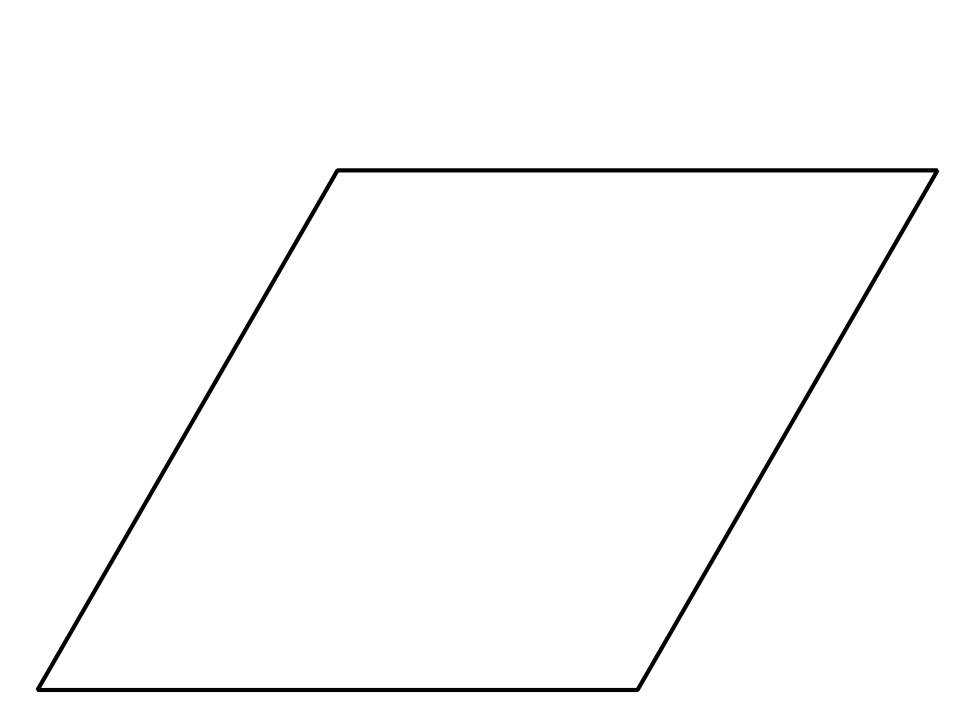
D

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## Activity 1Measure Twice, Draw Once

1. Diego draws a shape with fewer than 5 sides. Two sides are 3 centimeters long. Circle shapes that could be his shape.

* 
* 
* 
* 

1. Tyler draws a shape with 4 sides. Each side is 2 inches long.
   1. Circle shapes that could be his shape.
   * 
   * 
   * 
   * 
   1. Draw another shape that could be Tyler’s shape.
2. Priya draws a shape with more sides than Tyler’s shape. Only 1 side of her shape is 2 inches long. Draw 2 shapes that could be her shape.

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## Activity 2 Build a Shape

1. Choose your own attributes. Circle 1 in each row.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| * sides | * 3 | * 4 | * 5 | * 6 |
| * corners | * 3 | * 4 | * 5 | * 6 |
| * side length | * 1 side is 2 in. | * 2 sides are 2 in. | * 2 sides are 3 in. | * 4 sides are 2 in. |
| * square corners | * 0 | * 1 | * 2 | * all square corners |

* Draw and name a shape with your attributes. If you can’t draw the shape, explain your reasoning.
* Shape:
* Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Choose new attributes. Circle 1 in each row.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| * sides | * 3 | * 4 | * 5 | * 6 |
| * corners | * 3 | * 4 | * 5 | * 6 |
| * side length | * 1 side is 2 in. | * 2 sides are 2 in. | * 2 sides are 3 in. | * 4 sides are 2 in. |
| * square corners | * 0 | * 1 | * 2 | * all square corners |

* Draw and name a shape with your attributes. If you can’t draw the shape, explain your reasoning.
* Shape:
* Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Choose new attributes. Circle 1 in each row.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| * sides | * 3 | * 4 | * 5 | * 6 |
| * corners | * 3 | * 4 | * 5 | * 6 |
| * side length | * 1 side is 2 in. | * 2 sides are 2 in. | * 2 sides are 3 in. | * 4 sides are 2 in. |
| * square corners | * 0 | * 1 | * 2 | * all square corners |

* Draw and name a shape with your attributes. If you can’t draw the shape, explain your reasoning.
* Shape:
* Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Cover your attribute table. Trade papers with your partner. Guess which attributes they used.

* If you have time: Are there any attributes that are impossible to put together to make a shape? Show your thinking, using drawings, numbers, or words.