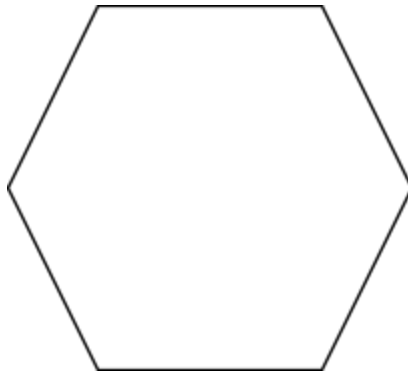# Activity 1b: Hexagon Challenge     Recommended Grades: 2-3

## Activity Instructions

1. Grab a hexagon pattern block; how can you make a hexagon using the other shapes?

    a. How many trapezoids make a hexagon? What part of the hexagon is one trapezoid?

    b. How many blue rhombuses make a hexagon? What part of the hexagon is one blue rhombus?

    c. How many triangles make a hexagon? What part of the hexagon is one triangle?

2. Challenge:

    a. Who can fill the hexagon board using the most possible pattern blocks?

    b. Who can fill the hexagon board using the least possible pattern blocks?

    c. Who can split the hexagon board into halves using pattern blocks first? Into thirds? Fourths?

## Virtual Game Link:

https://jamboard.google.com/d/1C7TAja05TYoYna1qNWDJ-gTu7daj7QlDrFZihLE5Rt8/copy

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### Family Prompts

- What is the name of this shape (for each pattern block)?
- Fill in the blank,
    - If 2 trapezoids make a hexagon, then a trapezoid is _(half)___ a hexagon.
    - If 3 rhombuses make a hexagon, then a rhombus is _____ a hexagon.
    - If 6 triangles make a hexagon, then a triangle is _____ a hexagon.
- Can you think of a different way to partition the hexagon into equal parts?
- Can you explain what you've done so far?
- Did you try a method that did not work? Why didn't it work?

*Supporting Materials*