Pattern Block Fractions

Module 3
Session 3

Today's Activities

- Use pattern blocks to work with fractions
- Learn the work place Hexagon Spin & Fill

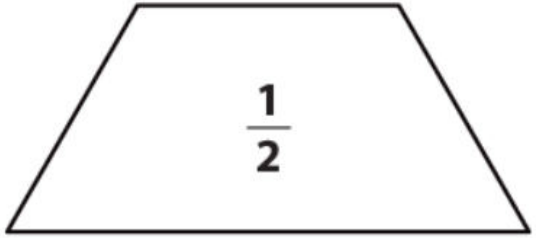
Materials Needed

Each student needs:

- ❏ 6” x 9” piece of construction paper
- ❏ Pattern blocks (hexagons, trapezoids, blue rhombuses, and triangles)

Pattern Block Fractions

1 If this is $\frac{1}{2}$ of the shape, what does the whole shape look like? Can you find more than one solution?

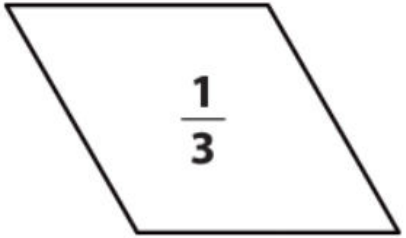


Use your pattern blocks to build what you believe the whole shape would be.

Build your shape on your dark-colored work mat so it is easier to see.

Pattern Block Fractions

2 If this is $\frac{1}{3}$ of the shape, what does the whole shape look like? Can you find more than one solution?

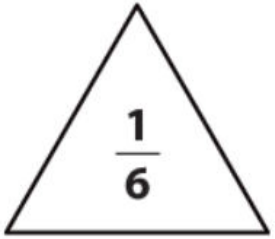


Use your pattern blocks to build what you believe the whole shape would be.

Build your shape on your dark-colored work mat so it is easier to see.

Pattern Block Fractions

3 If this is $\frac{1}{6}$ of the shape, what does the whole shape look like? Can you find more than one solution?

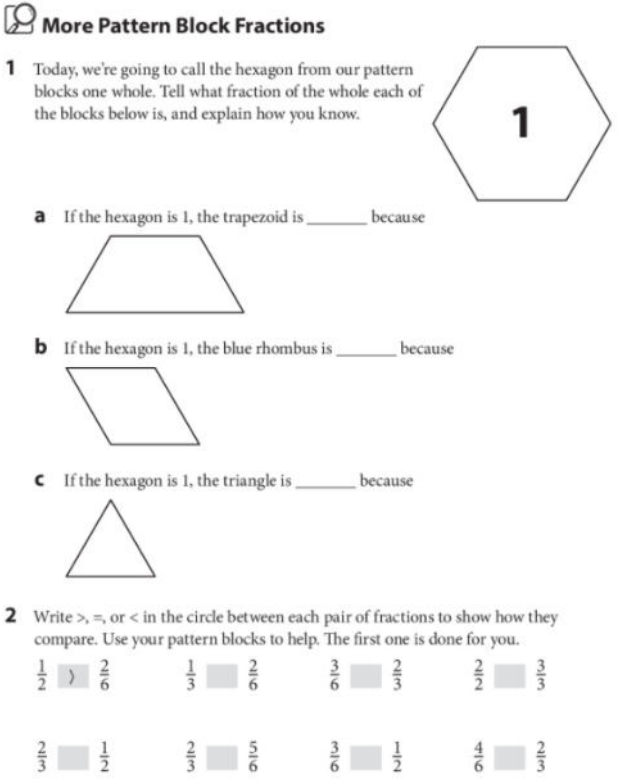


Use your pattern blocks to build what you believe the whole shape would be.

Build your shape on your dark-colored work mat so it is easier to see.

More Pattern Block Fractions - page 130

- If the hexagon is assigned a value of 1 whole, what fraction of the whole does the trapezoid represent? Why? How do you know?
- What about the blue rhombus? What fraction of the hexagon is the blue rhombus? How do you know?
- Set a single block on your work mat that is worth ½, if the hexagon is assigned a value of 1
- Set out 2 halves on your work mat. This is written as 2/2 and read as *two halves*
- Clear your mat and set out a single block that is worth 1/3 , if the hexagon is assigned a value of 1
- Show ⅔, or 2 one thirds. How does this compare with one-half?
- Compare fractions 2/6 and ⅓, 3/6 and ½, 3/3 and 5/6



More Pattern Block Fractions

1 Today, we're going to call the hexagon from our pattern blocks one whole. Tell what fraction of the whole each of the blocks below is, and explain how you know.

1

a If the hexagon is 1, the trapezoid is _____ because

b If the hexagon is 1, the blue rhombus is _____ because

c If the hexagon is 1, the triangle is _____ because

2 Write >, =, or < in the circle between each pair of fractions to show how they compare. Use your pattern blocks to help. The first one is done for you.

$\frac{1}{2} > \frac{2}{6}$ $\frac{1}{3} \bigcirc \frac{2}{6}$ $\frac{3}{6} \bigcirc \frac{2}{3}$ $\frac{2}{2} \bigcirc \frac{3}{3}$

$\frac{2}{3} \bigcirc \frac{1}{2}$ $\frac{2}{3} \bigcirc \frac{5}{6}$ $\frac{3}{6} \bigcirc \frac{1}{2}$ $\frac{4}{6} \bigcirc \frac{2}{3}$

Closing

- Summarize the directions for Hexagon Spin & Fill

Home Connection

Measurement & Fractions
pages 73-74

Optional

Complete Comparing Fractions on page 132 in your student book.