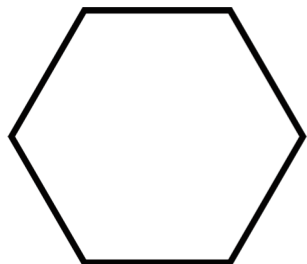# Review & Practice
Pattern Block Fractions

Created By The Owl Teacher

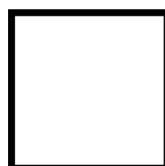Name _____

Pattern Block Mania

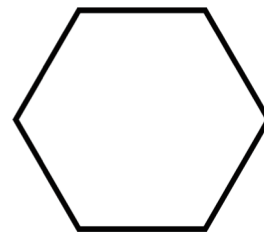Let's look at these ordinary pattern blocks. Next to each one, write their names.

1 ⬡ _____

2 ⬜ _____

3 _____

4 _____

⬭ _____

6 △ _____

7 Below write what all these shapes have in common.

_____

_____

_____

_____

_____

Name _____

Pattern Block Values

Determine the fractional value of the pattern blocks, based on what the value of the hexagon is. Write the fraction on the line. Use pattern blocks to help you, if needed.

1 A whole (1):

_____

_____

_____

2 A half ($\frac{1}{2}$):

_____

_____

_____

One-Third ($\frac{1}{3}$):

_____

_____

_____

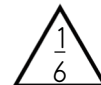**4** One-Fourth ($\frac{1}{4}$):

_____

_____

_____

5 Why do you think the other pattern blocks aren't used?

_____

_____

_____

Name _____

Pattern Block Creations

Using the only the pattern blocks below, create your own image with a value that equals the numbers provided.

1 whole $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{6}$
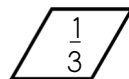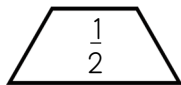
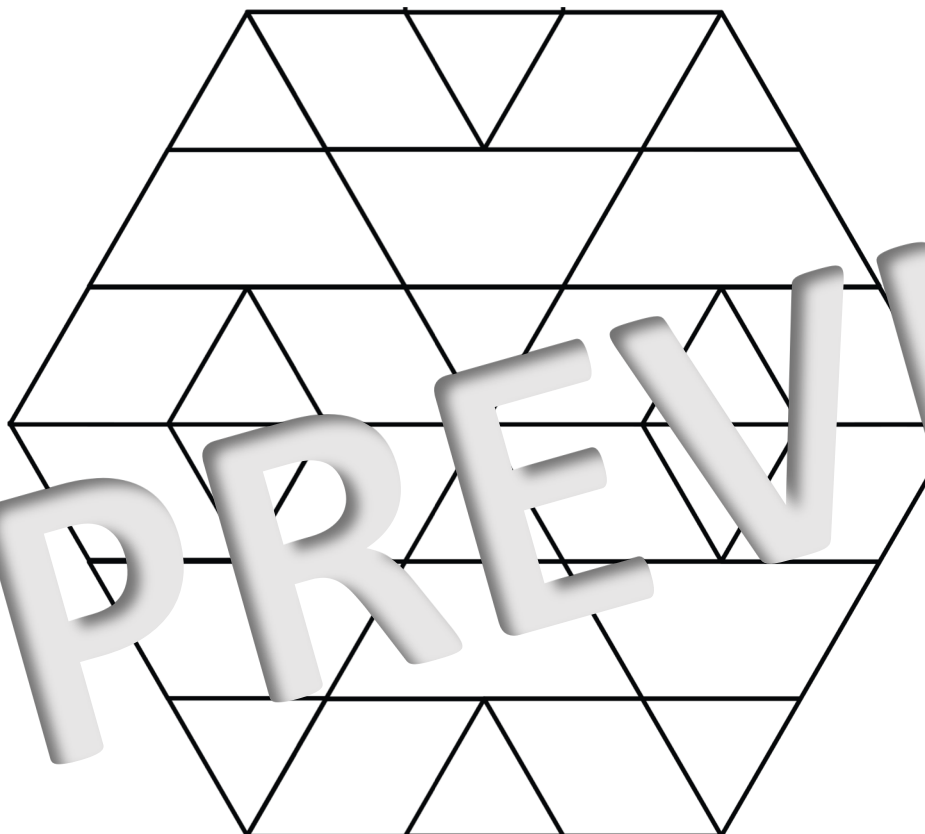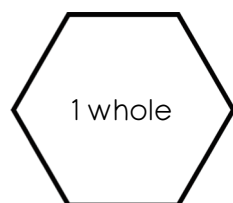(Images not to scale)

1 A total value of $1\frac{1}{2}$

2 A total value of $2\frac{2}{3}$

Name _____

Pattern Block Equations

Label the fractions in the design using the values of the pattern blocks. Assume that the hexagon is the whole.

1 whole

What is the total value for the trapezoids?

_____

What is the total value for the rhombuses?

_____

What is the total value for the triangles?

_____

BONUS:, What's the total value of the design?

_____

Now let's look at __total pieces__ – not size. Complete the questions below.

What pattern block shape of the design has the largest value? Explain.

_____

_____

What fraction of the design are trapezoids?   _____

_____

_____

What fraction of the design are rhombuses?   _____

_____

_____

What fraction of the design are triangles?   _____

_____

Name _____

Pattern Block Equations

Label the fractions in the design using the values of the pattern blocks. Assume that the hexagon is the whole. Ignore the square.

$\frac{1}{2}$

What is the total value for the hexagons?

_____

What is the total value for the rhombuses?

_____

What is the total value for the triangles?

_____

<u>BONUS</u>:, What's the total value of the design?

_____

Now let's look at <u>total pieces</u> – not size. Complete the questions below. Do count the square toward the total.

What fraction of the design are hexagons?   _____

What fraction of the design are rhombuses?   _____

What fraction of the design are triangles?   _____

How did you figure out the size of the shapes now that the hexagon is 1/2?

_____

_____

_____

_____

_____