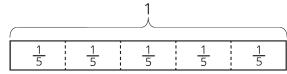
Unit 4 Lesson 4: How Many Groups? (Part 1)

1 Equal-sized Groups (Warm up)

Student Task Statement

Write a multiplication equation and a division equation for each sentence or diagram.

- 1. Eight \$5 bills are worth \$40.
- 2. There are 9 thirds in 3 ones.

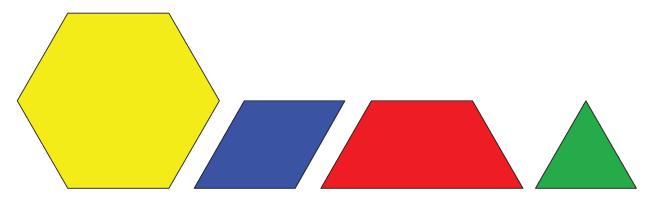


3.

2 Reasoning with Pattern Blocks

Student Task Statement

Your teacher will give you pattern blocks as shown here. Use them to answer the questions.



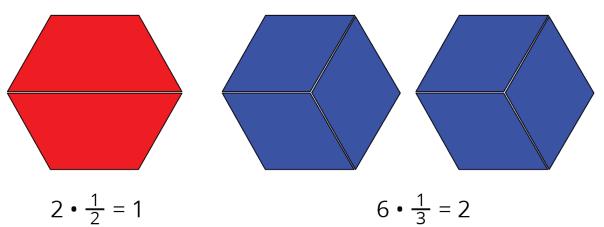
- 1. If a hexagon represents 1 whole, what fraction does each of the following shapes represent? Be prepared to show or explain your reasoning.
 - 1 triangle

• 4 triangles

1 hexagon and 1 trapezoid

- 1 rhombus
- o 3 rhombuses
- 1 trapezoid
- 2 hexagons

2. Here are Elena's diagrams for $2 \cdot \frac{1}{2} = 1$ and $6 \cdot \frac{1}{3} = 2$. Do you think these diagrams represent the equations? Explain or show your reasoning.



3. Use pattern blocks to represent each multiplication equation. Remember that a hexagon represents 1 whole.

a.
$$3 \cdot \frac{1}{6} = \frac{1}{2}$$

b.
$$2 \cdot \frac{3}{2} = 3$$

4. Answer the questions. If you get stuck, consider using pattern blocks.

a. How many
$$\frac{1}{2}$$
s are in 4?

b. How many
$$\frac{2}{3}$$
s are in 2?

c. How many
$$\frac{1}{6}$$
s are in $1\frac{1}{2}$?