## 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 rhombus
- 3 rhombuses
- 1 hexagon and 1 trapezoid
- 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.

$2 \cdot \frac{1}{2}=1$

$6 \cdot \frac{1}{3}=2$
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 $1 \frac{1}{2}$ ?
