



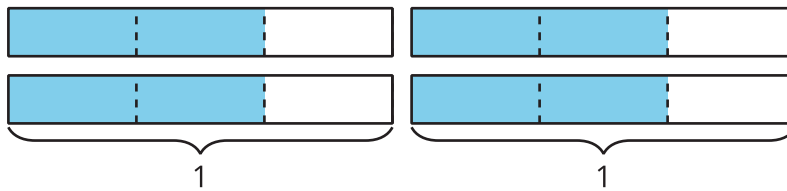
# Equal Groups of Non-unit Fractions

Let's multiply any fraction by a whole number.

## Warm-up

### Notice and Wonder: Thirds

What do you notice? What do you wonder?



## Activity 1

### Jars of Slime

Elena's science club makes red and blue slime. She fills 5 small jars with slime to share with her friends. Each jar can fit  $\frac{3}{4}$  cup of slime. How many cups of slime are in the jars?



If you have time: Elena still has some slime left. She takes 2 large jars and puts  $\frac{5}{4}$  cups of slime in each jar. How many cups of slime are in the jars?

## Activity 2

### How Do We Multiply?

1. This diagram represents  $\frac{2}{5}$ .



- Show how you would change the diagram to represent  $4 \times \frac{2}{5}$ .
- What is the value of the shaded parts in your diagram?

2. This diagram represents  $\frac{5}{8}$ .



- Show how you would change the diagram to represent  $3 \times \frac{5}{8}$ .
- What is the value of the shaded parts in your diagram?

3. Find the value of each expression. Draw a diagram if you find it helpful.

a.  $2 \times \frac{1}{6}$

b.  $2 \times \frac{4}{6}$

c.  $2 \times \frac{5}{6}$

d.  $4 \times \frac{5}{6}$

4. Mai says that to multiply any fraction by a whole number, she multiplies the whole number and the numerator of the fraction and keeps the same denominator. Do you agree with Mai? Explain your reasoning.

---

---

---

---

