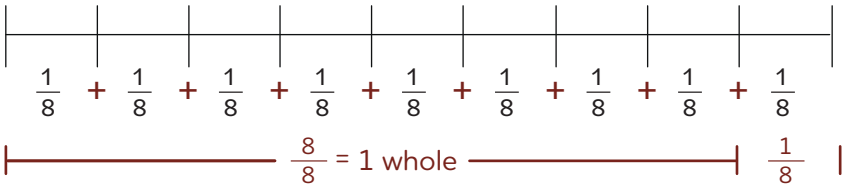
Illustrating Whole Number and Fraction Multiplication #2

When multiplying a whole number by a fraction, it can be helpful to show what's happening using a **number line**. This can be done in a few easy steps!

Consider: $9 \times \frac{1}{8}$

Step 1: Graph the multiplication expression $9 \times \frac{1}{8}$ as repeated addition on a number line. Then simplify the fraction below.

The number of spaces you will draw on the number line corresponds to the whole number you are multiplying the fraction by!



Step 2: State the equation, including the product.

$$9 \times \frac{1}{8} = 1\frac{1}{8}$$

Part 1: Graph each multiplication expression as repeated addition on a number line.

1. $9 \times \frac{5}{6}$ _____

2. $10 \times \frac{2}{9}$ _____

3. $8 \times \frac{3}{4}$ _____

4. $13 \times \frac{4}{5}$ _____

5. $6 \times \frac{6}{9}$ _____

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Part 2: Now, state the product for each multiplication expression you graphed in Part 1.

1. $9 \times \frac{5}{6} =$ ☐

2. $10 \times \frac{2}{9} =$ ☐

3. $8 \times \frac{3}{4} =$ ☐

4. $13 \times \frac{4}{5} =$ ☐

5. $6 \times \frac{6}{9} =$ ☐

Try these! Solve each of the following multiplication expressions using the two-step procedure described on page 1.

Step 1:	Step 2:
1. $7 \times \frac{2}{6} =$ _____	☐
2. $8 \times \frac{2}{3} =$ _____	☐
3. $6 \times \frac{2}{5} =$ _____	☐
4. $4 \times \frac{5}{7} =$ _____	☐