

# Illustrating Fraction and Whole Number Multiplication

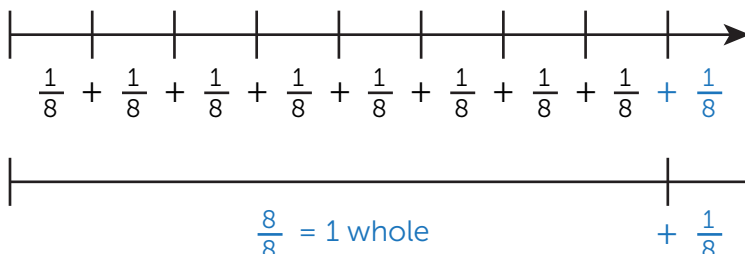
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When multiplying a whole number by a fraction, it can be helpful to show what's happening using a number line. This can be done in a few easy steps!

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

**Step 1:** Graph the multiplication expression:  $9 \times \frac{1}{8}$  as repeated addition on a number line:



**Step 2:** State the equation, including the product:  $9 \times \frac{1}{8} = 1\frac{1}{8}$

## Step One Exercises

**Directions:** Graph each multiplication expression as repeated addition on a number line.

1.  $8 \times \frac{1}{6} =$  \_\_\_\_\_

2.  $9 \times \frac{1}{2} =$  \_\_\_\_\_

3.  $7 \times \frac{1}{3} =$  \_\_\_\_\_

4.  $12 \times \frac{1}{2} =$  \_\_\_\_\_

5.  $10 \times \frac{1}{3} =$  \_\_\_\_\_

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## Step Two Exercises

*Directions: State the the product for each multiplication expression.*

6.  $8 \times \frac{1}{6} =$  \_\_\_\_\_

7.  $9 \times \frac{1}{2} =$  \_\_\_\_\_

8.  $7 \times \frac{1}{3} =$  \_\_\_\_\_

9.  $12 \times \frac{1}{2} =$  \_\_\_\_\_

10.  $10 \times \frac{1}{3} =$  \_\_\_\_\_

## Try These

*Directions: Solve each of the following multiplication expressions using the two-step procedure described above.*

11.  $9 \times \frac{1}{6} =$  \_\_\_\_\_

12.  $10 \times \frac{1}{2} =$  \_\_\_\_\_

13.  $8 \times \frac{1}{3} =$  \_\_\_\_\_

14.  $6 \times \frac{3}{5} =$  \_\_\_\_\_