

## Illustrating Fraction and Whole Number Multiplication

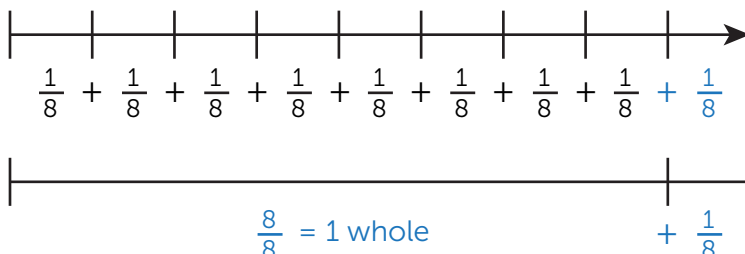
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When multiplying a whole number by a fraction, it can be helpful to show what's happening using a number line. This can be done in a few easy steps!

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.  $8 \times \frac{1}{6} = 1\frac{2}{6}$
2.  $9 \times \frac{1}{2} = 4\frac{1}{2}$
3.  $7 \times \frac{1}{3} = 2\frac{1}{3}$
4.  $12 \times \frac{1}{2} = 6$
5.  $10 \times \frac{1}{3} = 3\frac{1}{3}$

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### Step Two Exercises

Directions: State the the product for each multiplication expression.

6.  $8 \times \frac{1}{6} = 1 \frac{2}{6}$

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7.  $9 \times \frac{1}{2} = 4 \frac{1}{2}$

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8.  $7 \times \frac{1}{3} = 2 \frac{1}{3}$

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9.  $12 \times \frac{1}{2} = 6$

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

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### Try These

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

11.  $9 \times \frac{1}{6} = 1 \frac{3}{6}$

12.  $10 \times \frac{1}{2} = 5$

13.  $8 \times \frac{1}{3} = 2 \frac{2}{3}$

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