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!

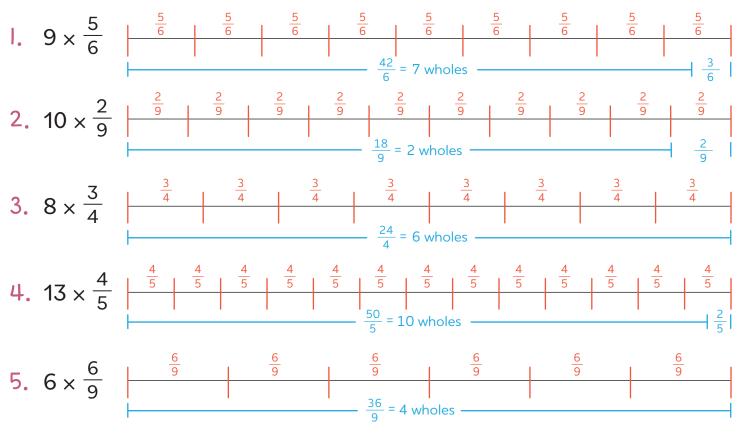
Consider: $9 \times \frac{1}{8}$

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

Step 2: State the equation, including the product.

The number of spaces you will draw on the number line corresponds
to the whole number you are multiplying the fraction by!
$$\begin{array}{|} \\ \hline \\ 1 \\ 8 \\ \hline \\ 1 \\ 8 \\ \hline \\ 8 \\ \hline \\ 9 \\ \times \frac{1}{8} = 1\frac{1}{8}$$

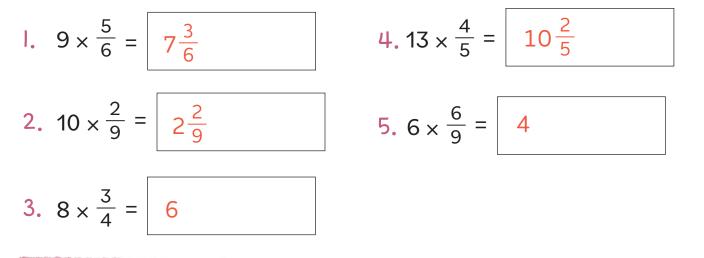
Part I: Graph each multiplication expression as repeated addition on a number line.



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



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

