

Name: Class:

Multiply unit fractions by whole numbers using number lines



Draw a number line to find the products of the following fractions.

a. $\frac{6}{8} \times 3 =$

b. $\frac{6}{7} \times 2 =$

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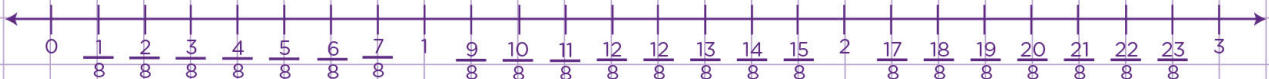
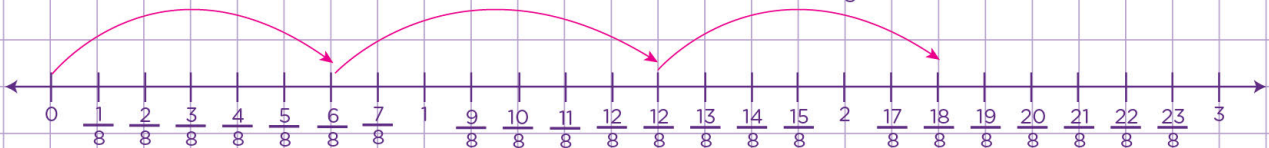
Draw a number line to find the products of the following fractions.

a. $\frac{6}{8} \times 3 = \frac{18}{8}$

Let's first of all draw a number line.

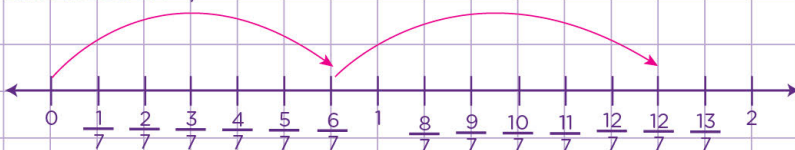
 $\frac{6}{8}$ is the same as $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ using repeated addition.

So, our number line will be drawn from 0 to 3 whole.

Each whole will be divided into 8 equal parts to represent the unit fraction $\frac{1}{8}$ To find the product, let's count forward on the number line six $\frac{1}{8}$ three timesYou see that, if we count forward on the number six $\frac{1}{8}$ three times we will end up at $\frac{18}{8}$

So, $\frac{6}{8} \times 3 = \frac{18}{8}$

b. $\frac{6}{7} \times 2 = \frac{11}{7}$

Let's first of all draw a number line from 0 to 2 whole divided into 7 equal parts to represent the unit fraction $\frac{1}{7}$ You see that, if we count forward on the number line six $\frac{1}{7}$ unit fractions two times, we will have $\frac{11}{7}$

So, $\frac{6}{7} \times 2 = \frac{11}{7}$