Musa and Karen are riding a bike path that is \(\frac{4}{5}\) mile long. Karen’s bike got a flat tire \(\frac{3}{10}\) of the way down the path and she had to stop. How many miles did Karen ride?

You can find the product of two fractions by drawing a diagram.

**Step 1.** Draw a diagram using shading to represent \(\frac{4}{5}\).

**Step 2.** Draw lines vertically using dots to represent \(\frac{3}{10}\).

**Step 3.** Count the parts of the diagram that are shaded and dotted. This is the product numerator.

12

**Step 4.** Count the total number of parts of the diagram. This is the product denominator.

50

**Step 5.** Simplify if possible.

\[
\frac{12}{50} = \frac{6}{25}
\]

Another way to find the product:

**Step 1.** Multiply the numerators: \(4 \times 3 = 12\).

**Step 2.** Multiply the denominators: \(5 \times 10 = 50\).

**Step 3.** Simplify if possible: \(\frac{12}{50} = \frac{6}{25}\).

In 1 through 6, find the product. Simplify if possible.

1. \(\frac{1}{3} \times \frac{2}{5} = \) ____  
2. \(\frac{5}{8} \times \frac{1}{4} = \) ____  
3. \(\frac{5}{6} \times \frac{3}{10} = \) ____  
4. \(\frac{1}{2} \times 6 = \) ____  
5. \(14 \times \frac{3}{7} = \) ____  
6. \(\frac{3}{5} \times \frac{1}{2} \times \frac{6}{7} = \) ____  
7. Using a diagram, show \(\frac{3}{7} \times \frac{1}{4}\).