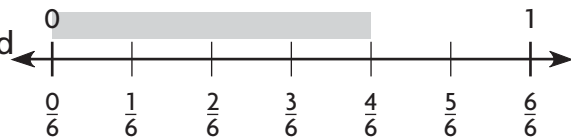# Add Fractions Using Models
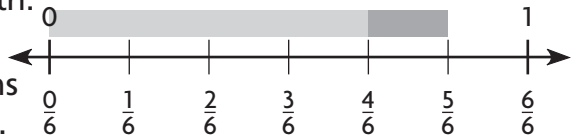
Fractions with like denominators have the same denominator. You can add fractions with like denominators using a number line.

Model $\frac{4}{6} + \frac{1}{6}$.

Step 1 Draw a number line labeled with sixths. Model the fraction $\frac{4}{6}$ by starting at 0 and shading **4** sixths.

$$\begin{array}{ccccccc} 0 & & & & & & 1 \\ \frac{0}{6} & \frac{1}{6} & \frac{2}{6} & \frac{3}{6} & \frac{4}{6} & \frac{5}{6} & \frac{6}{6} \end{array}$$

Step 2 Add the fraction $\frac{1}{6}$ by shading **1** more sixth.

Step 3 How many sixths are there in all? **5** sixths Write the number of sixths as a fraction.

$$\begin{array}{ccccccc} 0 & & & & & & 1 \\ \frac{0}{6} & \frac{1}{6} & \frac{2}{6} & \frac{3}{6} & \frac{4}{6} & \frac{5}{6} & \frac{6}{6} \end{array}$$

5 sixths $= \frac{5}{6}$ $\qquad$ $\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$

1 Model $\frac{1}{5} + \frac{4}{5}$.

$\frac{1}{5} + \frac{4}{5} = $ _____

$$\begin{array}{cccccc} 0 & & & & & 1 \\ \frac{0}{5} & \frac{1}{5} & \frac{2}{5} & \frac{3}{5} & \frac{4}{5} & \frac{5}{5} \end{array}$$

Find the sum. Use a model to help.

2 $\frac{2}{10} + \frac{4}{10}$

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$$\begin{array}{ccccccccccc} 0 & & & & & & & & & & 1 \\ \frac{0}{10} & \frac{1}{10} & \frac{2}{10} & \frac{3}{10} & \frac{4}{10} & \frac{5}{10} & \frac{6}{10} & \frac{7}{10} & \frac{8}{10} & \frac{9}{10} & \frac{10}{10} \end{array}$$

3 $\frac{1}{4} + \frac{1}{4}$

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$$\begin{array}{ccccc} 0 & & & & 1 \\ \frac{0}{4} & \frac{1}{4} & \frac{2}{4} & \frac{3}{4} & \frac{4}{4} \end{array}$$