

## DIVIDING A WHOLE BY A FRACTION

We can divide whole numbers by fractions using similar methods.

<b>BAR MODEL</b>	$2 \div \frac{3}{4} =$	$4 \div \frac{1}{2} =$
------------------	------------------------	------------------------

Choose one model and solve the problems below.

<p>1.</p> $3 \div \frac{5}{6} =$	<p>2.</p> $4 \div \frac{2}{3} =$
<p>3.</p> $3 \div \frac{1}{5} =$	<p>4.</p> $2 \div \frac{2}{5} =$

## REVIEW DIVIDING FRACTIONS

• Use the following steps to divide fractions.

1. Change each mixed number to an improper fraction.
- K** 2. Rewrite the 1<sup>1</sup>/<sub>2</sub> fraction. (dividend)
- C** 3. Change the division to multiplication.
- F** 4. Find the reciprocal of the second fraction. (divisor)
5. Multiply.
6. Simplify.

<b>ALGORITHM</b>	5. <span style="margin-left: 20px;"><b>KCF</b></span> $6 \div \frac{3}{4} =$	6. $4 \div \frac{6}{7} =$
------------------	---	---------------------------

Roll a pair of dice, and find the sum of the two numbers showing. Solve that problem.

DICE ROLL	SOLVE	SOLUTION	DICE ROLL	SOLVE	SOLUTION
<b>2</b>	the reciprocal of $\frac{6}{9}$		<b>8</b>	$3 \div \frac{1}{6} =$	
<b>3</b>	$6 \div \frac{3}{4} =$		<b>9</b>	$\frac{3}{4} \div 6 =$	
<b>4</b>	$\frac{7}{8} \div 4 =$		<b>10</b>	the reciprocal of 7	
<b>5</b>	the reciprocal of $3\frac{1}{3}$		<b>11</b>	$9 \div \frac{4}{5} =$	
<b>6</b>	$\frac{2}{3} \div 12 =$		<b>12</b>	$\frac{4}{5} \div 3 =$	
<b>7</b>	$8 \div \frac{5}{6} =$				

Summarize today's lesson:

## DIVIDING A WHOLE BY A FRACTION

Use the bar model to solve the problems below.

1.  $3 \div \frac{1}{4} =$

2.  $4 \div \frac{3}{4} =$

3.  $2 \div \frac{4}{5} =$

4.  $6 \div \frac{1}{2} =$

Divide the fractions below using the algorithm.

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