2.3
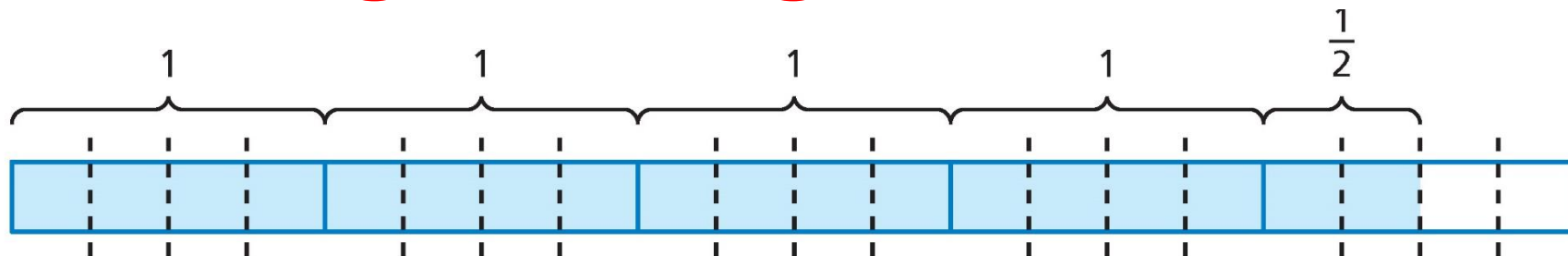
Dividing Mixed Numbers

DO NOW

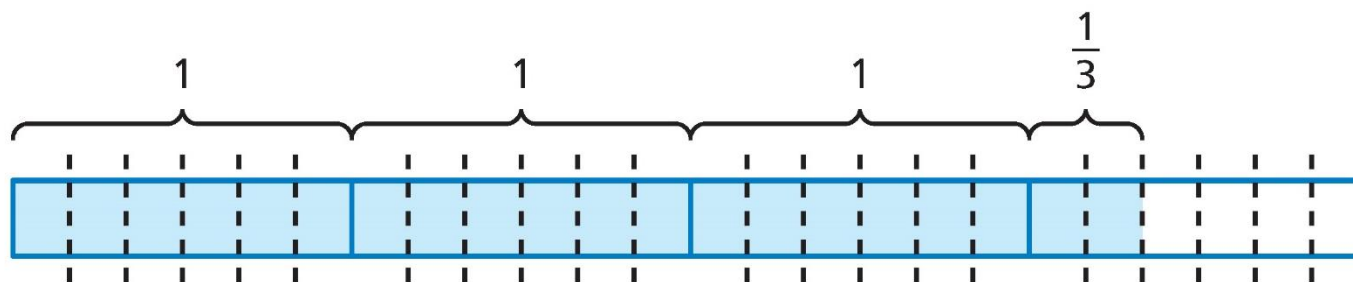1) $\dfrac{5}{8} \div \dfrac{15}{16} =$

2) $\dfrac{7}{12} \div \dfrac{14}{15} =$

Modeling Dividing Fractions
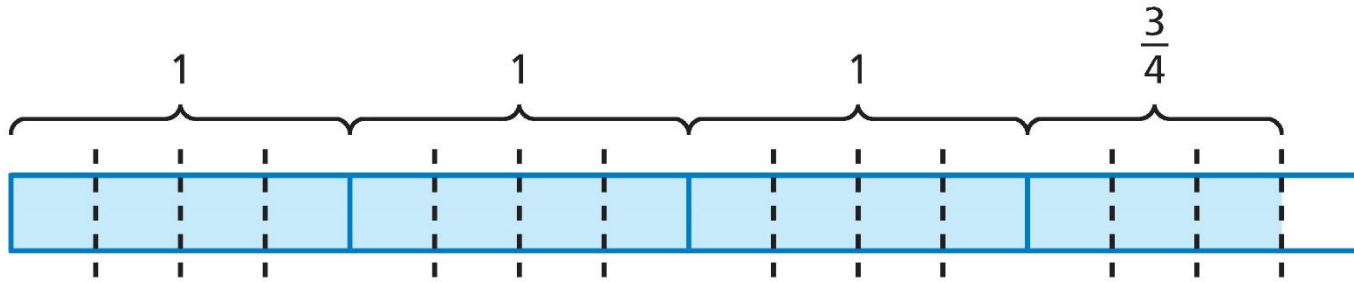

1) How many three-fourths are in four and one-half?

Write a division problem that represents this: _____

2) How many five-sixths are in three and one-third?

Write a division problem that represents this: _____

Modeling Dividing Fractions

3) How many three-eighths are in three and three-fourths?

Write a division problem that represents this: _____

Modeling Dividing Fractions

Write the following as division problems.

4) How many one and one-halves are in six?

5) How many one and one-fifths are in five?

6) How many one and one-fourths are in four and one-half?

7) How many two and one-thirds are in fi ve and fi ve-sixths?

Reciprocals

Write the reciprocal of the following:

1) $\dfrac{15}{17}$

2) 12

3) $1\dfrac{2}{3}$

4) $5\dfrac{3}{4}$

Dsiding Mixed Numbers

Write the reciprocal of the following:

1) $\quad 8\dfrac{3}{4} \div 2\dfrac{5}{8}$

Dividing Mixed Numbers

Write the reciprocal of the following:

2) $\quad 3\dfrac{1}{8} \div 2\dfrac{1}{4}$

Dividing Mixed Numbers

Write the reciprocal of the following:

3) $\quad 2\dfrac{2}{5} \div 12\dfrac{2}{5}$

Dividing Mixed Numbers

Write the reciprocal of the following:

4) $5\dfrac{2}{3} \div 6\dfrac{3}{5}$

Real-Life Application

One serving of tortilla soup is $1\frac{2}{3}$ cups. A restaurant cook makes 50 cups of soup. Is there enough to serve 35 people? Explain.

Order of Operations

6) $\quad 1\dfrac{1}{2} \div \dfrac{1}{6} - \dfrac{7}{8}$

Order of Operations

7) $\dfrac{2}{5} + 2\dfrac{4}{5} \div 1\dfrac{3}{4}$

Practice

Example

$$3\frac{1}{2} \div \frac{1}{3} = \frac{7}{2} \div \frac{1}{3} = \frac{7}{2} \times \frac{3}{1} = \frac{21}{2} = 10\frac{1}{2}$$

1) $3\frac{2}{7} \div \frac{3}{7} =$

2) $1\frac{1}{4} \div \frac{1}{2} =$