2.3

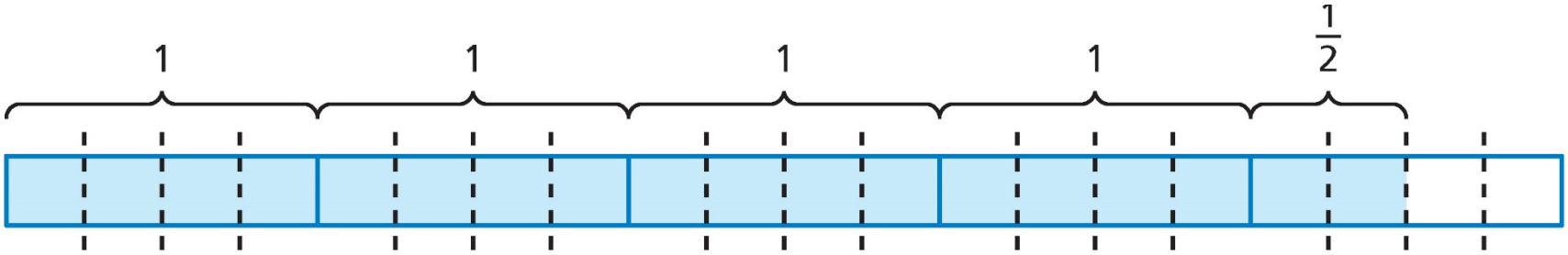
Dividing Mixed Numbers

DO NOW

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

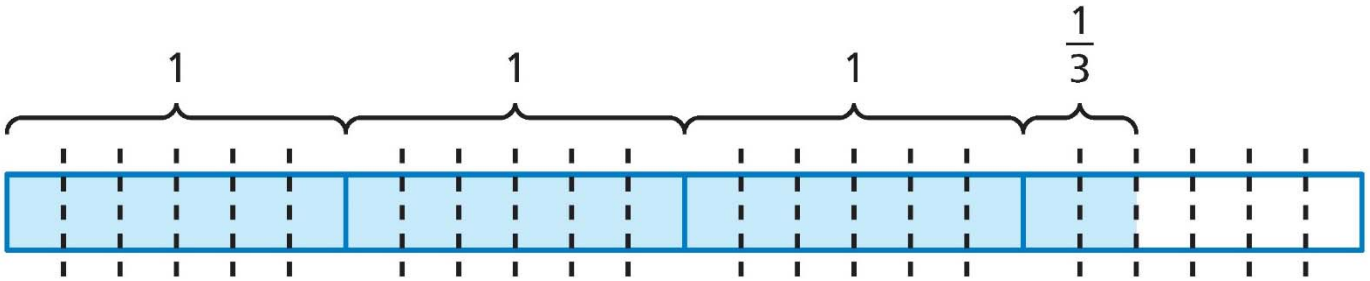
2) $\frac{7}{12} \div \frac{14}{15} =$

Modeling Dividing Fractions



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

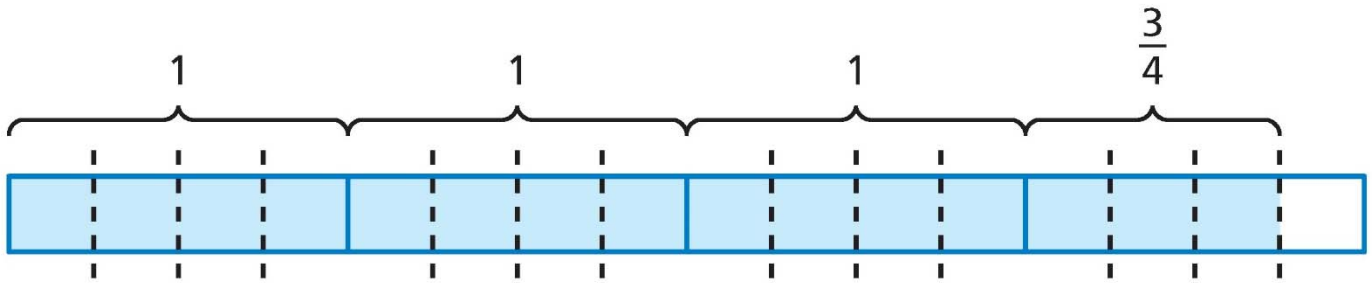
Write a division problem that represents this: _____



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) $\frac{15}{17}$

2) 12

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

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

Dividing Mixed Numbers

- Change into improper fraction
- Keep, Change, Flip
- Multiply Fractions

Write the reciprocal of the following:

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

Dividing Mixed Numbers

- Change into improper fraction
- Keep, Change, Flip
- Multiply Fractions

Write the reciprocal of the following:

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

Dividing Mixed Numbers

- Change into improper fraction
- Keep, Change, Flip
- Multiply Fractions

Write the reciprocal of the following:

3) $2\frac{2}{5} \div 12\frac{2}{5}$

Dividing Mixed Numbers

- Change into improper fraction
- Keep, Change, Flip
- Multiply Fractions

Write the reciprocal of the following:

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

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

Order of Operations

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

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