



## Lesson: Dividing Fraction

### Most Essential Learning Competency:

- 1) visualizes division of fractions.
- 2) divides simple fractions and whole numbers by a fraction and vice versa
- 3) solves routine or non-routine problems involving division without or with any of the other operations of fractions and whole numbers using appropriate problem solving strategies and tools .

Divide the following:

1)  $5/8 \div 1/8 =$

Step 1: Turn the second fraction (the one you want to divide by) upside down (this is now a reciprocal).

$$\frac{1}{8} \text{ becomes } \frac{8}{1}$$

Step 2: Multiply the first fraction by that reciprocal:

$$\frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad \times \quad}{\quad \times \quad} = \frac{\quad}{\quad}$$

Step 3: Simplify the fraction (if needed)

$$\frac{\quad}{\quad} = \frac{\quad}{\quad}$$

How many


in


?

\_\_\_\_\_

2)  $2/4 \div 3 \frac{1}{2} =$

Step 1: Rename all mixed numbers into improper fractions. Turn the second fraction (the one you want to divide by) upside down (this is now a reciprocal).

$3 \frac{1}{2}$  becomes  $\frac{\quad}{\quad}$

$\frac{\quad}{\quad}$  becomes  $\frac{\quad}{\quad}$

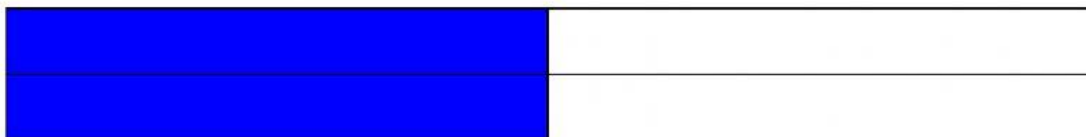
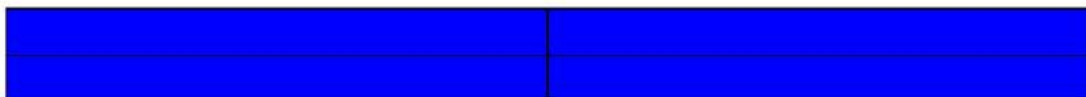
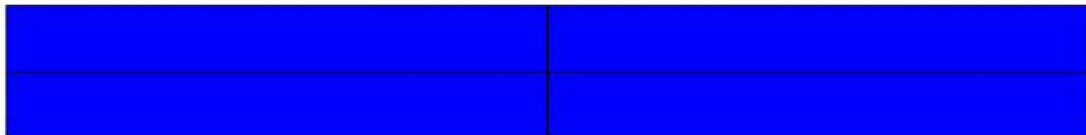
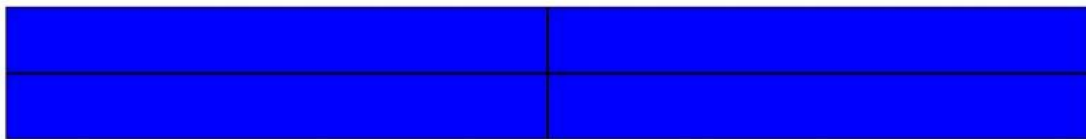
Step 2: Multiply the first fraction by that reciprocal:

$\frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\mathbf{x}}{\mathbf{x}} = \frac{\quad}{\quad}$

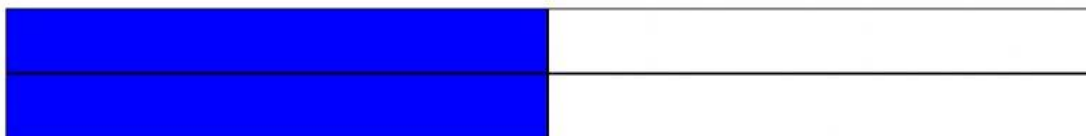
Step 3: Simplify the fraction (if needed)

$\frac{\quad}{\quad} =$

How many



in



?

$\frac{\quad}{\quad}$

3)  $2/5 \div 2 =$

Step 1: Rename all mixed numbers into improper fractions. Turn the second fraction (the one you want to divide by) upside down (this is now a reciprocal).

2 becomes  $\frac{\quad}{\quad}$

$\frac{\quad}{\quad}$  becomes  $\frac{\quad}{\quad}$

Step 2: Multiply the first fraction by that reciprocal:

$$\frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\mathbf{x}}{\mathbf{x}} = \frac{\quad}{\quad}$$

Step 3: Simplify the fraction (if needed)

$$\frac{\quad}{\quad} =$$

How many



in



?

$\frac{\quad}{\quad}$

$$4) \frac{7}{8} \div 3 \frac{4}{5} =$$

$$= \frac{\quad}{\quad} \div \frac{\quad}{\quad}$$

$$= \frac{\quad}{\quad} \times \frac{\quad}{\quad}$$

$$= \frac{\quad}{\quad} \times \frac{\quad}{\quad}$$

$$\boxed{= \frac{\quad}{\quad}}$$

$$5) 2 \frac{3}{5} \div 1 \frac{6}{7} =$$

$$= \frac{\quad}{\quad} \div \frac{\quad}{\quad}$$

$$= \frac{\quad}{\quad} \times \frac{\quad}{\quad}$$

$$= \frac{\quad}{\quad} \times \frac{\quad}{\quad}$$

$$\boxed{= \frac{\quad}{\quad}}$$