



## 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:

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

Step 3: Simplify the fraction (if needed)

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

How many


in


?

Azizah Pajemolin

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

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).

$$3 \frac{1}{2} \text{ becomes } \frac{7}{2}$$

$$\frac{1}{2} \text{ becomes } \frac{2}{1}$$

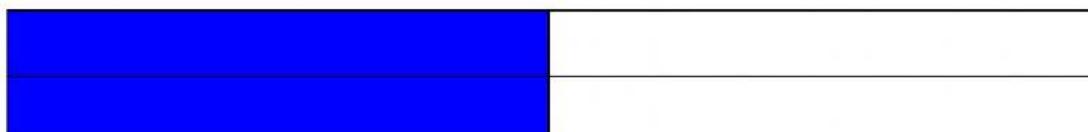
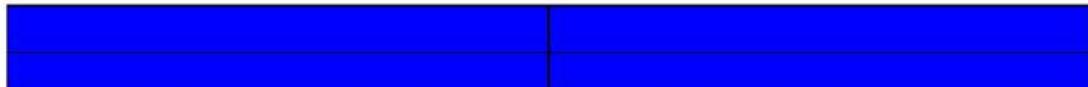
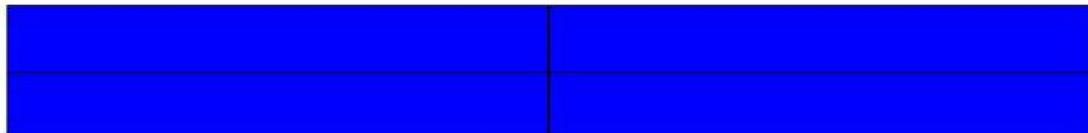
Step 2: Multiply the first fraction by that reciprocal:

$$\frac{2}{7} \times \frac{1}{2} = \frac{x}{x} = \frac{1}{1}$$

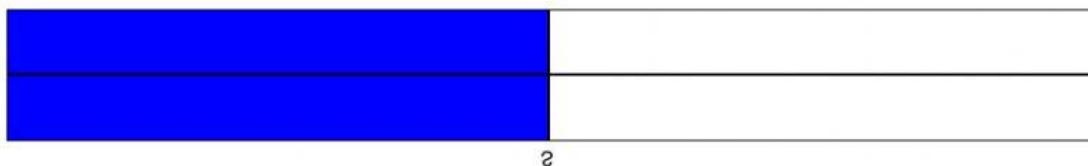
Step 3: Simplify the fraction (if needed)

$$\frac{1}{1} =$$

How many



in



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Azizah Pajemolin

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

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).

$$2 \text{ becomes } \frac{2}{1}$$

$$\frac{2}{1} \text{ becomes } \frac{1}{2}$$

Step 2: Multiply the first fraction by that reciprocal:

$$\frac{2}{1} \times \frac{1}{2} = \frac{2 \times 1}{1 \times 2} = \frac{2}{2}$$

Step 3: Simplify the fraction (if needed)

$$\frac{2}{2} =$$

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How many



in



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Azizah Pajemolin

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

$$= \underline{\quad} \div \underline{\quad}$$

$$= \underline{\quad} \times \underline{\quad}$$

$$= \underline{\quad} \times \underline{\quad}$$

$$\boxed{= \underline{\quad}}$$

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

$$= \underline{\quad} \div \underline{\quad}$$

$$= \underline{\quad} \times \underline{\quad}$$

$$= \underline{\quad} \times \underline{\quad}$$

$$\boxed{= \underline{\quad}}$$