


Learning Target: I will name fractions on a number line.

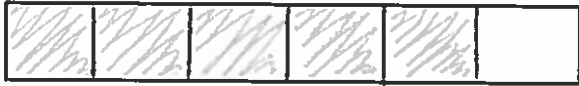
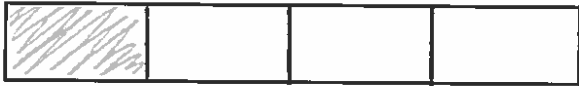
 4th Grade - Readiness Standard 5 - 3.NF.1 - Form A

1. We Do Together: Draw, label and tell.

<p>Draw eight equal parts and shade 3</p> 	<p>Label the numerator or denominator of the fraction</p> <p style="text-align: center;"> $\frac{3}{8}$ ← numerator </p>
<p>Tell</p> <p>How many unshaded parts make up the whole rectangle? <u>5</u></p> <p>What fractional part of the rectangle appears to be shaded? <u>$\frac{3}{8}$</u> Unshaded? <u>$\frac{5}{8}$</u></p>	

2. Reflect: What questions do you have about naming fractions on a number line?

3. You Do Together: Draw, label and write.

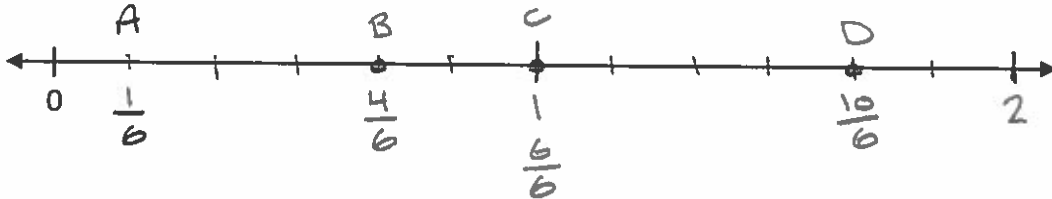
<p>Draw six equal parts and shade 5</p> 	<p>Label the numerator or denominator of the fraction</p> <p style="text-align: center;"> $\frac{5}{6}$ ← denominator </p>
<p>Tell</p> <p>How many unshaded parts make up the whole rectangle? <u>1</u></p> <p>What fractional part of the rectangle appears to be shaded? <u>$\frac{5}{6}$</u> Unshaded? <u>$\frac{1}{6}$</u></p>	
<p>Draw four equal parts and shade 1</p> 	<p>Label the numerator or denominator of the fraction</p> <p style="text-align: center;"> $\frac{1}{4}$ ← numerator </p>
<p>Tell</p> <p>How many unshaded parts make up the whole rectangle? <u>3</u></p> <p>What fractional part of the rectangle appears to be shaded? <u>$\frac{1}{4}$</u> Unshaded? <u>$\frac{3}{4}$</u></p>	

Learning Target: I will name fractions on a number line.

4th Grade - Readiness Standard 6 - 3.NF.2 - Form A

1. We Do Together: Draw, label and write.

Draw and label sixths from zero to two



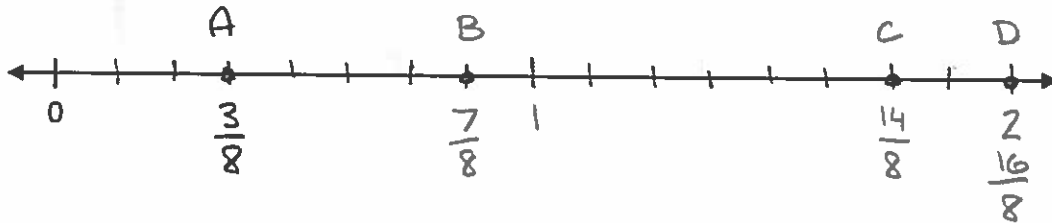
Place and label points each location on the number line

A = one-sixth B = four-sixths C = six-sixths D = ten-sixths

2. Reflect: What questions do you have about naming fractions on a number line?

3. You Do Together: Draw, label and write.

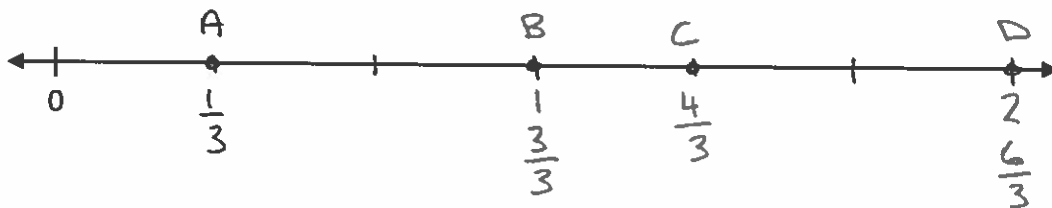
Draw and label eighths from zero to two



Place and label points each location on the number line

A = three-eighths B = seven-eighths C = fourteen-eighths D = sixteen-eighths

Draw and label thirds from zero to two



Place and label points each location on the number line

A = one-third B = three-thirds C = four-thirds D = six-thirds

Learning Target: I will compare fractions with the same numerator or same denominator

4th Grade - Readiness Standard 7 - 3.NF.3d
- Form A

< or >
Less Than or Greater Than

1. We Do Together: Draw, compare and tell.

Draw each point on a number line

Compare using > or < $\frac{5}{8} < \frac{5}{6}$	Tell how you could compare without a drawing Both have 5 parts from the same size whole and <u>8^{ths} are smaller than 6^{ths}</u>
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2. Reflect: What questions do you have about comparing fractions?

3. You Do Together: Draw, compare and tell.

Draw each point on a number line

Compare using > or < $\frac{3}{4} > \frac{3}{6}$	Tell how you could compare without a drawing Both have 3 parts from the same size whole and <u>4^{ths} are bigger than 6^{ths}</u>
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Draw each point on a number line

Compare using > or < $\frac{4}{8} > \frac{3}{8}$	Tell how you could compare without a drawing Both have parts that are the same size and <u>4 parts are more than 3 parts</u>
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Name _____

Date _____

Learning Target: I will compare fractions with different numerators and different denominators

5th Grade - Readiness Standard 3 - 4.NF.2
- Form A

< or >
Less Than Greater Than

1. We Do Together: Rename, plot and compare.

One denominator is a multiple of the other.	One denominator is <u>NOT</u> a multiple of the other.
<p>Rename one fraction to create common denominators</p> $\frac{3}{4} = \frac{3 \cdot 2}{4 \cdot 2} = \frac{6}{8} \quad \frac{5}{8}$	<p>Rename each fraction to create common denominators</p> $\frac{2}{3} = \frac{2 \cdot 4}{3 \cdot 4} = \frac{8}{12} \quad \frac{3}{4} = \frac{3 \cdot 3}{4 \cdot 3} = \frac{9}{12}$
<p>Label each point on the number line</p>	<p>Label each point on the number line</p>
<p>Compare using > or <</p> $\frac{3}{4} > \frac{5}{8}$	<p>Compare using > or <</p> $\frac{2}{3} < \frac{3}{4}$

2. Reflect: What questions do you have about comparing fractions?

3. You Do Together: Draw, compare and write.

One denominator is a multiple of the other.	One denominator is <u>NOT</u> a multiple of the other.
<p>Rename one fraction to create common denominators</p> $\frac{2}{3} = \frac{2 \cdot 2}{3 \cdot 2} = \frac{4}{6} \quad \frac{5}{6}$	<p>Rename each fraction to create common denominators</p> $\frac{1}{3} = \frac{1 \cdot 4}{3 \cdot 4} = \frac{4}{12} \quad \frac{1}{4} = \frac{1 \cdot 3}{4 \cdot 3} = \frac{3}{12}$
<p>Label each point on the number line</p>	<p>Label each point on the number line</p>
<p>Compare using > or <</p> $\frac{2}{3} < \frac{5}{6}$	<p>Compare using > or <</p> $\frac{1}{3} > \frac{1}{4}$

Learning Target: I will convert between improper fractions and mixed numbers

5th Grade - Readiness Standard 4 - 4.NF.3b - Form A

1. We Do Together: Draw, tell and write.

Draw and label the improper fraction on the number line		
Tell how many wholes you see and the equivalent number of 6 ^{ths}	Tell the part of the whole	Write the equivalent mixed number
2 Wholes = $\frac{12}{6}$	$\frac{5}{6}$	$\frac{17}{6} = 2\frac{5}{6}$

2. Reflect: What questions do you have about converting between improper fractions and mixed numbers?

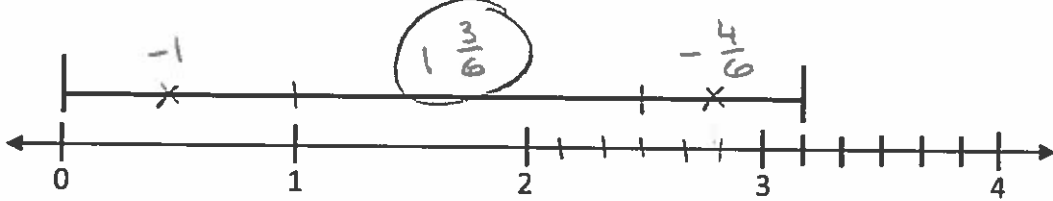
3. You Do Together: Draw, tell and write.

Draw and label the mixed number on the number line		
Tell how many 8 ^{ths} equals 3 wholes	Tell the part of the whole	Write the equivalent improper fraction
3 Wholes = $\frac{24}{8}$	$\frac{5}{8}$	$3\frac{5}{8} = \frac{29}{8}$
Draw and label the improper fraction on the number line		
Tell how many wholes you see and the equivalent number of 3 ^{ds}	Tell the part of the whole	Write the equivalent mixed number
2 Wholes = $\frac{6}{3}$	$\frac{2}{3}$	$\frac{8}{3} = 2\frac{2}{3}$

Learning Target: I will add and subtract mixed numbers with like denominators

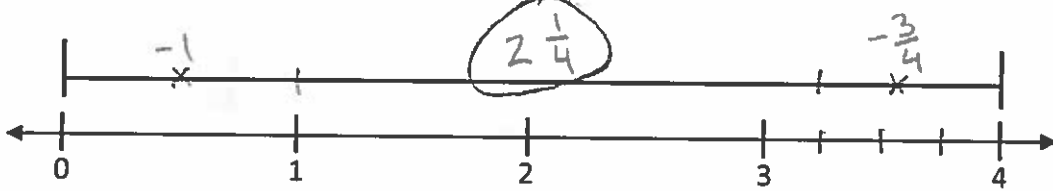
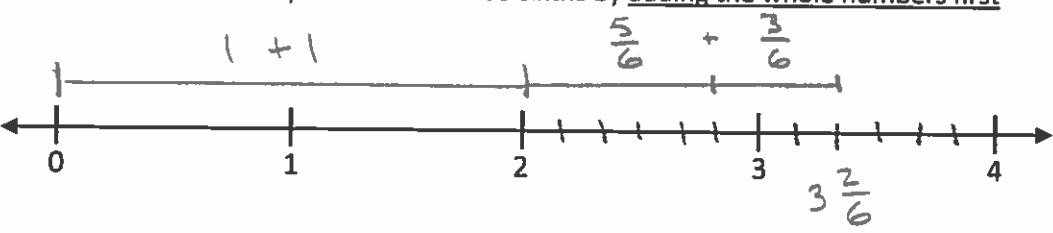
5th Grade - Readiness Standard 5 - 4.NF.3c - Form A

1. We Do Together: Draw, ungroup and show.

<p>Ungroup a whole to subtract one and four-sixths</p> 	<p>Show how you subtracted</p> $2 \frac{7}{6}$ $\cancel{3} \frac{1}{6}$ $- 1 \frac{4}{6}$ <hr style="width: 50%; margin-left: 0;"/> $1 \frac{3}{6} \text{ or } 1 \frac{1}{2}$
<p>Tell what you ungrouped and the equivalent mixed number</p> $1 \text{ Whole} = \frac{6}{6} \qquad 3 \frac{1}{6} = 2 \frac{7}{6}$	\uparrow $\frac{3 \cdot 1}{3 \cdot 2} = \frac{1}{2}$

2. Reflect: What questions do you have about subtracting mixed numbers?

3. You Do Together: Draw, tell and show.

<p>Ungroup a whole to subtract one and three-fourths</p> 	<p>Show how you subtracted</p> $3 \frac{4}{4}$ $\cancel{4}$ $- 1 \frac{3}{4}$ <hr style="width: 50%; margin-left: 0;"/> $2 \frac{1}{4}$
<p>Tell what you ungrouped and the equivalent mixed number</p> $1 \text{ Whole} = \frac{4}{4} \qquad 4 \frac{0}{4} = 3 \frac{4}{4}$	
<p>Draw one and five-sixths plus one and three-sixths by adding the whole numbers first</p> 	<p>Show how you added</p> $1 \frac{5}{6} \qquad \frac{2 \cdot 1}{2 \cdot 3} = \frac{1}{3}$ $+ 1 \frac{3}{6} \qquad \downarrow$ <hr style="width: 50%; margin-left: 0;"/> $2 \frac{8}{6} = 3 \frac{2}{6}$ $\text{or } 3 \frac{1}{3}$
<p>Tell what you grouped and the equivalent mixed number</p> $\frac{6}{6} = 1 \text{ Whole} \qquad \frac{5}{6} + \frac{3}{6} = \frac{8}{6} = 1 \frac{2}{6}$	

Learning Target: I will multiply a whole number by a fraction

 5th Grade - Readiness Standard 6 - 4.NF.4b - Form A

1. We Do Together: Draw, add and multiply.

Draw four groups of three-eighths $4 \times \frac{3}{8}$	
Add to find the total $4 \times \frac{3}{8} = \frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8} = \frac{12}{8}$	Multiply to find the total as a mixed number $\frac{4}{1} \times \frac{3}{8} = \frac{12}{8} = 1 \frac{4}{8} \text{ or } 1 \frac{1}{2}$

2. Reflect: What questions do you have about multiplying a whole number by a fraction?

$$\frac{4 \cdot 1}{4 \cdot 2} = \frac{1}{2}$$

3. You Do Together: Draw, add and multiply.

Draw three groups of five-sixths $3 \times \frac{5}{6}$	
Add to find the total $3 \times \frac{5}{6} = \frac{5}{6} + \frac{5}{6} + \frac{5}{6} = \frac{15}{6}$	Multiply to find the total as a mixed number $\frac{3}{1} \times \frac{5}{6} = \frac{15}{6} = 2 \frac{3}{6} \text{ or } 2 \frac{1}{2}$
Draw five groups of two-thirds $5 \times \frac{2}{3}$	
Add to find the total $5 \times \frac{2}{3} = \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{10}{3}$	Multiply to find the total as a mixed number $\frac{5}{1} \times \frac{2}{3} = \frac{10}{3} = 3 \frac{1}{3}$

Learning Target: I will add and subtract mixed numbers with different denominators

6th Grade - Readiness Standard 4 - 5.NF.1 - Form A

1. We Do Together: Rewrite, draw, tell and show.

<p>Rewrite using common denominators</p> $3 \frac{1 \times 2}{3 \times 2} \quad 2 \frac{8}{6}$ $- 1 \frac{5}{6} \quad - 1 \frac{5}{6}$ <hr style="width: 100%;"/> $\frac{3 \cdot 1}{3 \cdot 2} \quad \text{or } \frac{3}{6}$	<p>Show the common denominators and ungroup to subtract</p>
	<p>Tell what you ungrouped and the equivalent mixed number</p> <p>1 Whole = $\frac{6}{6}$ $3 \frac{2}{6} = 2 \frac{8}{6}$</p>
	<p>Show your thinking using numbers and symbols in the box to the far left</p>

2. Reflect: What questions do you have about subtracting mixed numbers?

3. You Do Together: Rewrite, draw, tell and show.

<p>Rewrite using common denominators</p> $2 \frac{1 \times 4}{2 \times 4} \quad 1 \frac{12}{8}$ $- 1 \frac{7}{8} \quad - 1 \frac{7}{8}$ <hr style="width: 100%;"/> $\frac{5}{8}$	<p>Draw the total, ungroup if necessary, then subtract</p>
	<p>Tell what you ungrouped and the equivalent mixed number</p> <p>1 Whole = $\frac{8}{8}$ $2 \frac{4}{8} = 1 \frac{12}{8}$</p>
	<p>Show your thinking using numbers and symbols in the box to the far left</p>
<p>Rewrite using common denominators</p> $1 \frac{2 \times 4}{3 \times 4} \quad 1 \frac{8}{12}$ $+ 1 \frac{3 \times 3}{4 \times 3} \quad 1 \frac{9}{12}$ <hr style="width: 100%;"/> $\text{or } 2 \frac{17}{12}$ $\text{or } 3 \frac{5}{12}$	<p>Draw the total by adding the whole numbers first</p>
	<p>Tell what you grouped and the equivalent mixed number</p> <p>1 Whole = $\frac{12}{12}$ $\frac{8}{12} + \frac{9}{12} = \frac{17}{12} = 1 \frac{5}{12}$</p>
	<p>Show your thinking using numbers and symbols in the box to the far left</p>

Learning Target: I will multiply a whole number by a fraction 6th Grade - Readiness Standard 5 - 5.NF.4b - Form A

1. We Do Together: Draw, identify and multiply.

<p>Draw 1-fourth of 2-thirds of the whole</p> <div style="text-align: center;"> </div> <div style="display: flex; justify-content: center; align-items: center; gap: 20px;"> $\frac{1}{4}$ <div style="text-align: center;"> $\frac{1}{12}$ </div> </div> <div style="text-align: center; margin-top: 10px;"> $\frac{2}{3}$ </div>	<p>Identify the size of 1-fourth of the 2-thirds</p> <p>1-fourth of 2-thirds is $\frac{2}{12}$ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{1}{4} \times \frac{2}{3} = \frac{2}{12} = \frac{\cancel{2} \cdot 1}{\cancel{2} \cdot 6} = \frac{1}{6}$
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2. Reflect: What questions do you have about multiplying a whole number by a fraction?

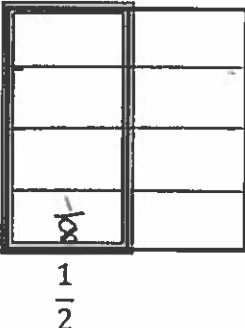
3. You Do Together: Draw, identify and multiply.

<p>Draw 2-thirds of 5-sixths of the whole</p> <div style="text-align: center;"> </div> <div style="display: flex; justify-content: center; align-items: center; gap: 20px;"> $\frac{2}{3}$ <div style="text-align: center;"> $\frac{1}{18}$ </div> </div> <div style="text-align: center; margin-top: 10px;"> $\frac{5}{6}$ </div>	<p>Identify the size of 2-thirds of the 5-sixths</p> <p>2-thirds of 5-sixths is $\frac{10}{18}$ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{2}{3} \times \frac{5}{6} = \frac{10}{18} = \frac{\cancel{2} \cdot 5}{\cancel{2} \cdot 9} = \frac{5}{9}$
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<p>Draw 3-fourths of 1-third of the whole</p> <div style="text-align: center;"> </div> <div style="display: flex; justify-content: center; align-items: center; gap: 20px;"> $\frac{3}{4}$ <div style="text-align: center;"> $\frac{1}{12}$ </div> </div> <div style="text-align: center; margin-top: 10px;"> $\frac{1}{3}$ </div>	<p>Identify the size of 3-fourths of the 1-third</p> <p>3-fourths of 1-third is $\frac{3}{12}$ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{3}{4} \times \frac{1}{3} = \frac{3}{12} = \frac{\cancel{3} \cdot 1}{\cancel{3} \cdot 4} = \frac{1}{4}$
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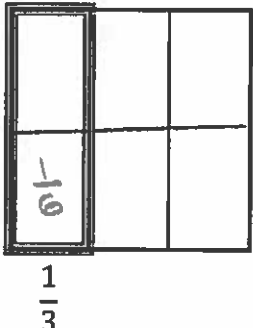
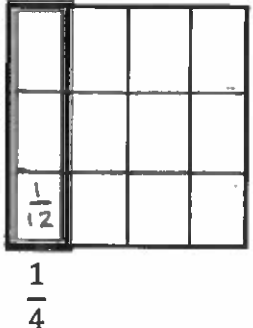
Learning Target: I will divide a unit fraction by a whole number 6th Grade - Readiness Standard 6 - 5.NF.7a - Form A

1. We Do Together: Divide, identify, think multiply to divide and share.

<p>Divide 1-half of the whole into 4 equal parts</p>  <p style="text-align: center;">$\frac{1}{2}$</p>	<p>Identify the size of each part</p> $\frac{1}{2} \div 4 = \frac{1}{8}$	<p>Think multiply to divide</p> $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$
<p>Share how 4 is related to $\frac{1}{4}$</p> <p style="text-align: center;">$\frac{1}{4}$ is the reciprocal of 4 or $\frac{1}{4}$</p>		

2. Reflect: What questions do you have about dividing a unit fraction by a whole number?

3. You Do Together: Divide, identify, think multiply to divide and share.

<p>Divide 1-third of the whole into 2 equal parts</p>  <p style="text-align: center;">$\frac{1}{3}$</p>	<p>Identify the size of each part</p> $\frac{1}{3} \div 2 = \frac{1}{6}$	<p>Think multiply to divide</p> $\frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$
<p>Share how 2 is related to $\frac{1}{2}$</p> <p style="text-align: center;">$\frac{1}{2}$ is the reciprocal of 2 or $\frac{2}{1}$</p>		
<p>Divide 1-fourth of the whole into 3 equal parts</p>  <p style="text-align: center;">$\frac{1}{4}$</p>	<p>Identify the size of each part</p> $\frac{1}{4} \div 3 = \frac{1}{12}$	<p>Think multiply to divide</p> $\frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$
<p>Share how 3 is related to $\frac{1}{3}$</p> <p style="text-align: center;">$\frac{1}{3}$ is the reciprocal of 3 or $\frac{3}{1}$</p>		



Name _____

Date _____

Learning Target: I will divide a whole number by a unit fraction 6th Grade - Readiness Standard 7 - 5.NF.7b - Form A**1. We Do Together:** Divide, identify and think multiply to divide.

Each squares to represent 1 whole. Divide the 3 wholes into equal parts of 1-fourth

✓	✓	✓
✓	✓	✓
✓	✓	✓
$\frac{1}{4}$	✓	✓

Identify how many 1-fourths are in 3 wholes

$$3 \div \frac{1}{4} = 12$$

Share how $\frac{1}{4}$ is related to 44 is the reciprocal of $\frac{1}{4}$

Think multiply to divide

$$3 \times 4 = 12$$

2. Reflect: What questions do you have about dividing a whole number by a unit fraction?**3. You Do Together:** Divide, identify and think multiply to divide.

Each squares to represent 1 whole. Divide the 5 wholes into equal parts of 1-third

✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
$\frac{1}{3}$	✓	✓	✓	✓

Identify how many 1-thirds are in 5 wholes

$$5 \div \frac{1}{3} = 15$$

Share how $\frac{1}{3}$ is related to 33 is the reciprocal of $\frac{1}{3}$

Think multiply to divide

$$5 \times 3 = 15$$

Learning Target: I will multiply and divide fractions

 7th Grade - Readiness Standard 1 - 6.NS.1 - Form A

1. We Do Together: Label, multiply, divide and think multiply to divide.

<p>Draw 1-half of 1-fourth of the whole</p> <div style="text-align: center;"> </div>	<p>Draw to find how many <u>1-fourths</u> are in 1-half</p> <div style="text-align: center;"> </div>
<p>Multiply to find the size of each fractional part</p> $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$	<p>Write the number of groups and think multiply to divide</p> $\frac{1}{2} \div \frac{1}{4} = 2 \quad \frac{1}{2} \times \frac{4}{1} = \frac{4}{2} = \frac{\cancel{2} \cdot 2}{\cancel{2} \cdot 1} = 2$

2. Reflect: What questions do you have about multiplying and dividing fractions?

3. You Do Together: Label, multiply, divide and think multiply to divide.

<p>Draw 2-thirds of 2-sixths of the whole</p> <div style="text-align: center;"> </div>	<p>Draw to find how many <u>2-sixths</u> are in 2-thirds</p> <div style="text-align: center;"> </div>
<p>Multiply to find the size of each fractional part</p> $\frac{2}{3} \times \frac{2}{6} = \frac{4}{18} = \frac{\cancel{2} \cdot 2}{\cancel{2} \cdot 9} = \frac{2}{9}$	<p>Write the number of groups and think multiply to divide</p> $\frac{2}{3} \div \frac{2}{6} = 2 \quad \frac{2}{3} \times \frac{6}{2} = \frac{12}{6} = \frac{\cancel{6} \cdot 2}{\cancel{6} \cdot 1} = 2$