



Additional Guided Practice

5th Grade Readiness Standards

4.NBT.5, 4.NBT.6, 4.NF.2, 4.NF.3b, 4.NF.3c, 4.NF.4b

- Intended Purpose
 - To help students **strengthen and maintain conceptual understanding** using visual representations of mathematical ideas
- Suggestions for use:
 - **Distributed/spaced practice** between readiness screenings
 - **Revisit an intervention** after taking a short break with students who demonstrate some conceptual understanding by coming close to the learning goal on their Growth Chart
- Instructional Design:
 - Approximately **5 to 15 minutes** per session
 - **Forms A, B and C** are available for each readiness standard
 - Begin with the teacher/interventionist leading a **“We Do Together”** problem
 - The middle provides time for students to **reflect** and ask questions about the learning target
 - End with students taking turns leading to solve the **“You Do Together”** problems
- Solutions for Form A Guided Practice are included at the end of this document:
 - Drawing guides were used to construct each math drawing
 - Students who struggle with kinesthetic movement and spatial organization many benefit from using drawing guides to construct math drawings
 - Drawing guides are available with Delta Math intervention kits at www.deltamath.org



Name _____ Date _____

Learning Target: I will multiply 4-digit by 1-digit numbers and 2-digit by 2-digit numbers

5th Grade - Readiness Standard 1 - 4.NBT.5- Form A

1. We Do Together: Label, multiply and show.

<p>Label the partial lengths if the total length is 189</p> <div style="display: flex; align-items: center;"><div style="margin-right: 10px;">7</div><div style="border: 1px solid black; width: 360px; height: 90px; position: relative;"><div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border: 1px solid black;"></div></div></div>	<p>Show your thinking using numbers and symbols</p> $\begin{array}{r} 189 \\ \times 7 \\ \hline \end{array}$
<p>Multiply to find each partial area</p>	

2. Reflect: What questions do you have about multiplying a 3-digit number?

3. You Do Together: Label, multiply and show.

<p>Label the partial lengths if the total length is 1896</p> <div style="display: flex; align-items: center;"><div style="margin-right: 10px;">7</div><div style="border: 1px solid black; width: 410px; height: 90px; position: relative;"><div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border: 1px solid black;"></div></div></div>	<p>Show your thinking using numbers and symbols</p> $\begin{array}{r} 1896 \\ \times 7 \\ \hline \end{array}$
<p>Multiply to find each partial area</p>	
<p>Label the partial lengths if the total length is 18</p> <div style="display: flex; align-items: center;"><div style="margin-right: 10px;">10</div><div style="border: 1px solid black; width: 290px; height: 140px; position: relative;"><div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border: 1px solid black;"></div></div></div> <div style="display: flex; align-items: center; margin-top: 10px;"><div style="margin-right: 10px;">7</div><div style="border: 1px solid black; width: 290px; height: 50px; position: relative;"><div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border: 1px solid black;"></div></div></div>	<p>Show your thinking using numbers and symbols</p> $\begin{array}{r} 18 \\ \times 17 \\ \hline \end{array}$
<p>Multiply to find each partial area</p>	

Learning Target: I will multiply 4-digit by 1-digit numbers and 2-digit by 2-digit numbers

5th Grade - Readiness Standard 1 - 4.NBT.5- Form B

1. We Do Together: Label, multiply and show.

<p>Label the partial lengths if the total length is 178</p> <div style="display: flex; align-items: center; margin-top: 20px;"> <div style="margin-right: 10px;">9</div> <div style="border: 1px solid black; width: 350px; height: 80px; position: relative;"> <div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border-left: 1px solid black; border-right: 1px solid black;"></div> </div> </div>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 178 \\ \times 9 \\ \hline \end{array}$ </div>
<p>Multiply to find each partial area</p>	

2. Reflect: What questions do you have about multiplying a 3-digit number?

3. You Do Together: Label, multiply and show.

<p>Label the partial lengths if the total length is 1786</p> <div style="display: flex; align-items: center; margin-top: 20px;"> <div style="margin-right: 10px;">9</div> <div style="border: 1px solid black; width: 350px; height: 80px; position: relative;"> <div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border-left: 1px solid black; border-right: 1px solid black;"></div> </div> </div>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 1786 \\ \times 9 \\ \hline \end{array}$ </div>
<p>Multiply to find each partial area</p>	
<p>Label the partial lengths if the total length is 17</p> <div style="display: flex; align-items: center; margin-top: 20px;"> <div style="margin-right: 10px;">10</div> <div style="border: 1px solid black; width: 250px; height: 100px; position: relative;"> <div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border-left: 1px solid black; border-right: 1px solid black;"></div> </div> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 10px;">9</div> <div style="border: 1px solid black; width: 250px; height: 40px; position: relative;"> <div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border-left: 1px solid black; border-right: 1px solid black;"></div> </div> </div>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 17 \\ \times 19 \\ \hline \end{array}$ </div>
<p>Multiply to find each partial area</p>	



Name _____ Date _____

Learning Target: I will multiply 4-digit by 1-digit numbers and 2-digit by 2-digit numbers

5th Grade - Readiness Standard 1 - 4.NBT.5- Form C

1. We Do Together: Label, multiply and show.

<p>Label the partial lengths if the total length is 194</p> <div style="display: flex; align-items: center;"><div style="margin-right: 10px;">7</div><div style="border: 1px solid black; width: 360px; height: 90px; position: relative;"><div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border-left: 1px solid black; border-right: 1px solid black;"></div></div></div>	<p>Show your thinking using numbers and symbols</p> $\begin{array}{r} 194 \\ \times 7 \\ \hline \end{array}$
<p>Multiply to find each partial area</p>	

2. Reflect: What questions do you have about multiplying a 3-digit number?

3. You Do Together: Label, multiply and show.

<p>Label the partial lengths if the total length is 1967</p> <div style="display: flex; align-items: center;"><div style="margin-right: 10px;">7</div><div style="border: 1px solid black; width: 410px; height: 90px; position: relative;"><div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border-left: 1px solid black; border-right: 1px solid black;"></div></div></div>	<p>Show your thinking using numbers and symbols</p> $\begin{array}{r} 1967 \\ \times 7 \\ \hline \end{array}$
<p>Multiply to find each partial area</p>	
<p>Label the partial lengths if the total length is 19</p> <div style="display: flex; align-items: center;"><div style="margin-right: 10px;">10</div><div style="border: 1px solid black; width: 290px; height: 120px; position: relative;"><div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border-left: 1px solid black; border-right: 1px solid black;"></div></div></div> <div style="display: flex; align-items: center; margin-top: 10px;"><div style="margin-right: 10px;">8</div><div style="border: 1px solid black; width: 290px; height: 50px; position: relative;"><div style="position: absolute; left: 0; top: 0; width: 100%; height: 100%; border-left: 1px solid black; border-right: 1px solid black;"></div></div></div>	<p>Show your thinking using numbers and symbols</p> $\begin{array}{r} 19 \\ \times 18 \\ \hline \end{array}$
<p>Multiply to find each partial area</p>	

Learning Target: I will divide up to a 4-digit by 1-digit number 5th Grade - Readiness Standard 2 - 4.NBT.6 - Form A

1. We Do Together: List, label, think multiply to divide and show.

<p>List the multiples of 3</p> <p>3 x 1 = _____ 3 x 2 = _____ 3 x 3 = _____</p> <p>3 x 4 = _____ 3 x 5 = _____ 3 x 6 = _____</p> <p>3 x 7 = _____ 3 x 8 = _____ 3 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; font-size: 1.5em;"> $3 \overline{) 78}$ </div>				
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center; margin-top: 20px;"> <div style="margin-right: 10px;">3</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">3(____)</td> <td style="padding: 10px;">3(____)</td> </tr> <tr> <td style="padding: 10px;">60</td> <td style="padding: 10px;">18</td> </tr> </table> </div>	3(____)	3(____)	60	18	
3(____)	3(____)				
60	18				
<p>List the multiples of 9</p> <p>9 x 1 = _____ 9 x 2 = _____ 9 x 3 = _____</p> <p>9 x 4 = _____ 9 x 5 = _____ 9 x 6 = _____</p> <p>9 x 7 = _____ 9 x 8 = _____ 9 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; font-size: 1.5em;"> $9 \overline{) 603}$ </div>				
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center; margin-top: 20px;"> <div style="margin-right: 10px;">9</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">9(____)</td> <td style="padding: 10px;">9(____)</td> </tr> <tr> <td style="padding: 10px;">540</td> <td style="padding: 10px;">63</td> </tr> </table> </div>	9(____)	9(____)	540	63	
9(____)	9(____)				
540	63				

2. Reflect: What questions do you have about dividing a 3-digit number?

Learning Target: I will divide up to a 4-digit by 1-digit number 5th Grade - Readiness Standard 2 - 4.NBT.6 - Form A

3. You Do Together: List, label, think multiply to divide and show.

<p>List the multiples of 7</p> <p>7 x 1 = _____ 7 x 2 = _____ 7 x 3 = _____</p> <p>7 x 4 = _____ 7 x 5 = _____ 7 x 6 = _____</p> <p>7 x 7 = _____ 7 x 8 = _____ 7 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center;"> $7 \overline{)9051}$ </div>								
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; margin-left: 40px;"> <div style="margin-right: 10px;">7</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">7(____)</td> <td style="padding: 5px;">7(____)</td> <td style="padding: 5px;">7(____)</td> <td style="padding: 5px;">7(____)</td> </tr> <tr> <td style="padding: 5px;">7000</td> <td style="padding: 5px;">1400</td> <td style="padding: 5px;">630</td> <td style="padding: 5px;">21</td> </tr> </table> </div>	7(____)	7(____)	7(____)	7(____)	7000	1400	630	21	
7(____)	7(____)	7(____)	7(____)						
7000	1400	630	21						
<p>List the multiples of 8</p> <p>8 x 1 = _____ 8 x 2 = _____ 8 x 3 = _____</p> <p>8 x 4 = _____ 8 x 5 = _____ 8 x 6 = _____</p> <p>8 x 7 = _____ 8 x 8 = _____ 8 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center;"> $8 \overline{)5704}$ </div>								
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; margin-left: 40px;"> <div style="margin-right: 10px;">8</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">8(____)</td> <td style="padding: 5px;">8(____)</td> <td style="padding: 5px;">8(____)</td> </tr> <tr> <td style="padding: 5px;">5600</td> <td style="padding: 5px;">80</td> <td style="padding: 5px;">24</td> </tr> </table> </div>	8(____)	8(____)	8(____)	5600	80	24			
8(____)	8(____)	8(____)							
5600	80	24							

Learning Target: I will divide up to a 4-digit by 1-digit number 5th Grade - Readiness Standard 2 - 4.NBT.6 - Form B

1. We Do Together: List, label, think multiply to divide and show.

<p>List the multiples of 4</p> <p>4 x 1 = _____ 4 x 2 = _____ 4 x 3 = _____</p> <p>4 x 4 = _____ 4 x 5 = _____ 4 x 6 = _____</p> <p>4 x 7 = _____ 4 x 8 = _____ 4 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; font-size: 1.5em;"> $4 \overline{) 92}$ </div>				
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center; margin-top: 20px;"> <div style="margin-right: 10px;">4</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">4(____)</td> <td style="padding: 10px;">4(____)</td> </tr> <tr> <td style="padding: 10px;">80</td> <td style="padding: 10px;">12</td> </tr> </table> </div>	4(____)	4(____)	80	12	
4(____)	4(____)				
80	12				
<p>List the multiples of 9</p> <p>6 x 1 = _____ 6 x 2 = _____ 6 x 3 = _____</p> <p>6 x 4 = _____ 6 x 5 = _____ 6 x 6 = _____</p> <p>6 x 7 = _____ 6 x 8 = _____ 6 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; font-size: 1.5em;"> $6 \overline{) 402}$ </div>				
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center; margin-top: 20px;"> <div style="margin-right: 10px;">6</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">6(____)</td> <td style="padding: 10px;">6(____)</td> </tr> <tr> <td style="padding: 10px;">360</td> <td style="padding: 10px;">42</td> </tr> </table> </div>	6(____)	6(____)	360	42	
6(____)	6(____)				
360	42				

2. Reflect: What questions do you have about dividing a 3-digit number?

Learning Target: I will divide up to a 4-digit by 1-digit number 5th Grade - Readiness Standard 2 - 4.NBT.6 - Form B

3. You Do Together: List, label, think multiply to divide and show.

<p>List the multiples of 8</p> <p>8 x 1 = _____ 8 x 2 = _____ 8 x 3 = _____</p> <p>8 x 4 = _____ 8 x 5 = _____ 8 x 6 = _____</p> <p>8 x 7 = _____ 8 x 8 = _____ 8 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center;"> $8 \overline{) 5072}$ </div>				
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">8</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">8(_____) <div style="border-top: 1px solid black; margin-top: 5px;">4800</div> </td> <td style="padding: 10px;">8(_____) <div style="border-top: 1px solid black; margin-top: 5px;">240</div> </td> <td style="padding: 10px;">8(_____) <div style="border-top: 1px solid black; margin-top: 5px;">32</div> </td> </tr> </table> </div>	8(_____) <div style="border-top: 1px solid black; margin-top: 5px;">4800</div>	8(_____) <div style="border-top: 1px solid black; margin-top: 5px;">240</div>	8(_____) <div style="border-top: 1px solid black; margin-top: 5px;">32</div>		
8(_____) <div style="border-top: 1px solid black; margin-top: 5px;">4800</div>	8(_____) <div style="border-top: 1px solid black; margin-top: 5px;">240</div>	8(_____) <div style="border-top: 1px solid black; margin-top: 5px;">32</div>			
<p>List the multiples of 7</p> <p>7 x 1 = _____ 7 x 2 = _____ 7 x 3 = _____</p> <p>7 x 4 = _____ 7 x 5 = _____ 7 x 6 = _____</p> <p>7 x 7 = _____ 7 x 8 = _____ 7 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center;"> $7 \overline{) 8505}$ </div>				
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">7</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">7(_____) <div style="border-top: 1px solid black; margin-top: 5px;">7000</div> </td> <td style="padding: 10px;">7(_____) <div style="border-top: 1px solid black; margin-top: 5px;">1400</div> </td> <td style="padding: 10px;">7(_____) <div style="border-top: 1px solid black; margin-top: 5px;">70</div> </td> <td style="padding: 10px;">7(_____) <div style="border-top: 1px solid black; margin-top: 5px;">35</div> </td> </tr> </table> </div>	7(_____) <div style="border-top: 1px solid black; margin-top: 5px;">7000</div>	7(_____) <div style="border-top: 1px solid black; margin-top: 5px;">1400</div>	7(_____) <div style="border-top: 1px solid black; margin-top: 5px;">70</div>	7(_____) <div style="border-top: 1px solid black; margin-top: 5px;">35</div>	
7(_____) <div style="border-top: 1px solid black; margin-top: 5px;">7000</div>	7(_____) <div style="border-top: 1px solid black; margin-top: 5px;">1400</div>	7(_____) <div style="border-top: 1px solid black; margin-top: 5px;">70</div>	7(_____) <div style="border-top: 1px solid black; margin-top: 5px;">35</div>		

Learning Target: I will divide up to a 4-digit by 1-digit number 5th Grade - Readiness Standard 2 - 4.NBT.6 - Form C

1. We Do Together: List, label, think multiply to divide and show.

<p>List the multiples of 3</p> <p>3 x 1 = _____ 3 x 2 = _____ 3 x 3 = _____</p> <p>3 x 4 = _____ 3 x 5 = _____ 3 x 6 = _____</p> <p>3 x 7 = _____ 3 x 8 = _____ 3 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; font-size: 1.5em;"> $3 \overline{) 81}$ </div>				
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center; margin-top: 20px;"> <div style="margin-right: 10px;">3</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">3(____)</td> <td style="padding: 10px;">3(____)</td> </tr> <tr> <td style="padding: 10px;">60</td> <td style="padding: 10px;">21</td> </tr> </table> </div>	3(____)	3(____)	60	21	
3(____)	3(____)				
60	21				
<p>List the multiples of 8</p> <p>8 x 1 = _____ 8 x 2 = _____ 8 x 3 = _____</p> <p>8 x 4 = _____ 8 x 5 = _____ 8 x 6 = _____</p> <p>8 x 7 = _____ 8 x 8 = _____ 8 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; font-size: 1.5em;"> $8 \overline{) 608}$ </div>				
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center; margin-top: 20px;"> <div style="margin-right: 10px;">8</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">8(____)</td> <td style="padding: 10px;">8(____)</td> </tr> <tr> <td style="padding: 10px;">560</td> <td style="padding: 10px;">48</td> </tr> </table> </div>	8(____)	8(____)	560	48	
8(____)	8(____)				
560	48				

2. Reflect: What questions do you have about dividing a 3-digit number?

Learning Target: I will divide up to a 4-digit by 1-digit number 5th Grade - Readiness Standard 2 - 4.NBT.6 - Form C

3. You Do Together: List, label, think multiply to divide and show.

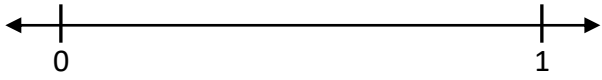
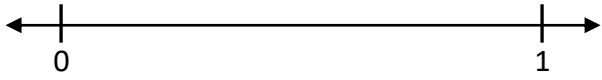
<p>List the multiples of 7</p> <p>7 x 1 = _____ 7 x 2 = _____ 7 x 3 = _____</p> <p>7 x 4 = _____ 7 x 5 = _____ 7 x 6 = _____</p> <p>7 x 7 = _____ 7 x 8 = _____ 7 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center;"> $7 \overline{)9051}$ </div>								
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; margin-left: 40px;"> <div style="margin-right: 10px;">7</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">7(____)</td> <td style="padding: 5px;">7(____)</td> <td style="padding: 5px;">7(____)</td> <td style="padding: 5px;">7(____)</td> </tr> <tr> <td style="padding: 5px;">7000</td> <td style="padding: 5px;">1400</td> <td style="padding: 5px;">630</td> <td style="padding: 5px;">21</td> </tr> </table> </div>	7(____)	7(____)	7(____)	7(____)	7000	1400	630	21	
7(____)	7(____)	7(____)	7(____)						
7000	1400	630	21						
<p>List the multiples of 9</p> <p>9 x 1 = _____ 9 x 2 = _____ 9 x 3 = _____</p> <p>9 x 4 = _____ 9 x 5 = _____ 9 x 6 = _____</p> <p>9 x 7 = _____ 9 x 8 = _____ 9 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center;"> $9 \overline{)7668}$ </div>								
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; margin-left: 40px;"> <div style="margin-right: 10px;">8</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">8(____)</td> <td style="padding: 5px;">8(____)</td> <td style="padding: 5px;">8(____)</td> </tr> <tr> <td style="padding: 5px;">5600</td> <td style="padding: 5px;">80</td> <td style="padding: 5px;">32</td> </tr> </table> </div>	8(____)	8(____)	8(____)	5600	80	32			
8(____)	8(____)	8(____)							
5600	80	32							

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

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

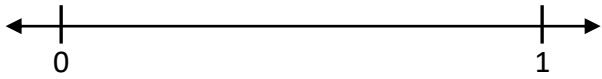
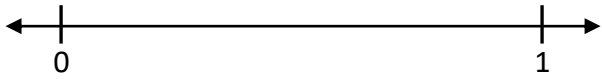
$<$ or $>$
 Less Than Greater Than

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

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

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

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

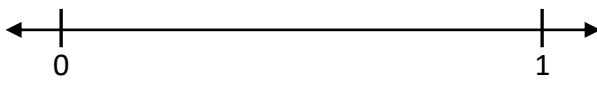
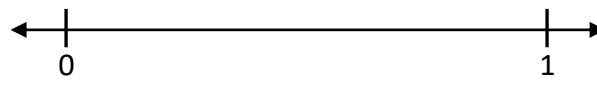
One denominator is a multiple of the other.	One denominator <u>is NOT</u> a multiple of the other.
Rename one fraction to create common denominators $\frac{2}{3} = \frac{2 \cdot}{3 \cdot} = \frac{\quad}{6}$ $\frac{5}{6}$	Rename each fraction to create common denominators $\frac{1}{3} = \frac{1 \cdot}{3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

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

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

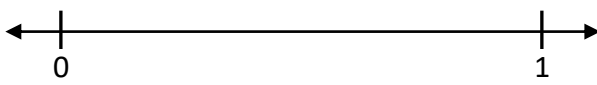
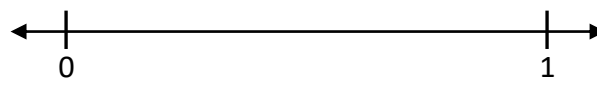
$<$ or $>$
 Less Than Greater Than

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

One denominator is a multiple of the other.	One denominator <u>is NOT</u> a multiple of the other.
Rename one fraction to create common denominators $\frac{1}{4} = \frac{1 \cdot}{4 \cdot} = \frac{\quad}{8}$ $\frac{3}{8}$	Rename each fraction to create common denominators $\frac{1}{2} = \frac{1 \cdot}{2 \cdot} = \frac{\quad}{6}$ $\frac{2}{3} = \frac{2 \cdot}{3 \cdot} = \frac{\quad}{6}$
Label each point on the number line 	Label each point on the number line 
Compare using $>$ or $<$ $\frac{1}{4}$ $\frac{3}{8}$	Compare using $>$ or $<$ $\frac{1}{2}$ $\frac{2}{3}$

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

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

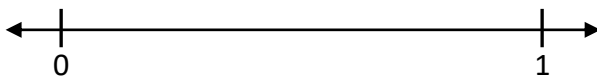
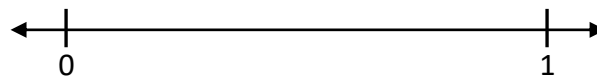
One denominator is a multiple of the other.	One denominator <u>is NOT</u> a multiple of the other.
Rename one fraction to create common denominators $\frac{1}{2} = \frac{1 \cdot}{2 \cdot} = \frac{\quad}{8}$ $\frac{5}{8}$	Rename each fraction to create common denominators $\frac{2}{4} = \frac{2 \cdot}{4 \cdot} = \frac{\quad}{12}$ $\frac{1}{3} = \frac{1 \cdot}{3 \cdot} = \frac{\quad}{12}$
Label each point on the number line 	Label each point on the number line 
Compare using $>$ or $<$ $\frac{1}{2}$ $\frac{5}{8}$	Compare using $>$ or $<$ $\frac{2}{4}$ $\frac{1}{3}$

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

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

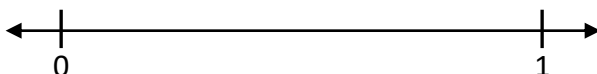
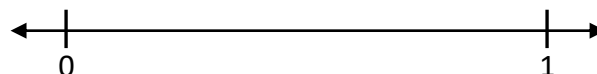
$<$ or $>$
 Less Than Greater Than

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

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

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

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 <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> $\frac{17}{6}$ </div> </div>		
Tell how many wholes you see and the equivalent number of 6 ^{ths} <div style="text-align: center; margin-top: 20px;"> ____ Wholes = $\frac{\quad}{6}$ </div>	Tell the part of the whole <div style="text-align: center; margin-top: 20px;"> $\frac{\quad}{6}$ </div>	Write the equivalent mixed number <div style="text-align: center; margin-top: 20px;"> $\frac{17}{6} =$ </div>

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 <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> $3\frac{5}{8}$ </div> </div>		
Tell how many 8 ^{ths} equals 3 wholes <div style="text-align: center; margin-top: 20px;"> 3 Wholes = $\frac{\quad}{8}$ </div>	Tell the part of the whole <div style="text-align: center; margin-top: 20px;"> $\frac{\quad}{8}$ </div>	Write the equivalent improper fraction <div style="text-align: center; margin-top: 20px;"> $3\frac{5}{8} =$ </div>

Draw and label the improper fraction on the number line <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> $\frac{8}{3}$ </div> </div>		
Tell how many wholes you see and the equivalent number of 3 ^{rds} <div style="text-align: center; margin-top: 20px;"> ____ Wholes = $\frac{\quad}{3}$ </div>	Tell the part of the whole <div style="text-align: center; margin-top: 20px;"> $\frac{\quad}{3}$ </div>	Write the equivalent mixed number <div style="text-align: center; margin-top: 20px;"> $\frac{8}{3} =$ </div>

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

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

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

Draw and label the improper fraction on the number line <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> $\frac{27}{8}$ </div> </div>		
Tell how many wholes you see and the equivalent number of 8 ^{ths} <div style="text-align: center; margin-top: 20px;"> ____ Wholes = $\frac{\quad}{8}$ </div>	Tell the part of the whole <div style="text-align: center; margin-top: 20px;"> $\frac{\quad}{6}$ </div>	Write the equivalent mixed number <div style="text-align: center; margin-top: 20px;"> $\frac{17}{6} =$ </div>

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 <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> $2\frac{5}{6}$ </div> </div>		
Tell how many 6 ^{ths} equals 2 wholes <div style="text-align: center; margin-top: 20px;"> 2 Wholes = $\frac{\quad}{6}$ </div>	Tell the part of the whole <div style="text-align: center; margin-top: 20px;"> $\frac{\quad}{6}$ </div>	Write the equivalent improper fraction <div style="text-align: center; margin-top: 20px;"> $2\frac{5}{6} =$ </div>

Draw and label the improper fraction on the number line <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> $\frac{15}{4}$ </div> </div>		
Tell how many wholes you see and the equivalent number of 4 ^{ths} <div style="text-align: center; margin-top: 20px;"> ____ Wholes = $\frac{\quad}{4}$ </div>	Tell the part of the whole <div style="text-align: center; margin-top: 20px;"> $\frac{\quad}{4}$ </div>	Write the equivalent mixed number <div style="text-align: center; margin-top: 20px;"> $\frac{15}{4} =$ </div>

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

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

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

Draw and label the improper fraction on the number line <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> $\frac{21}{6}$ </div> </div>		
Tell how many wholes you see and the equivalent number of 6 ^{ths} <div style="text-align: center; margin-top: 20px;"> ____ Wholes = $\frac{\quad}{6}$ </div>	Tell the part of the whole <div style="text-align: center; margin-top: 20px;"> $\frac{\quad}{6}$ </div>	Write the equivalent mixed number <div style="text-align: center; margin-top: 20px;"> $\frac{21}{6} =$ </div>

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

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

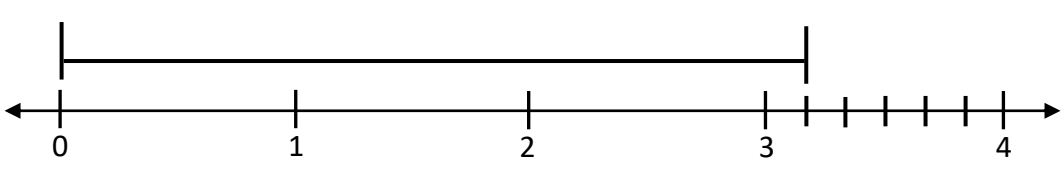
Draw and label the mixed number on the number line <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> $3\frac{1}{8}$ </div> </div>		
Tell how many 8 ^{ths} equals 3 wholes <div style="text-align: center; margin-top: 20px;"> 3 Wholes = $\frac{\quad}{8}$ </div>	Tell the part of the whole <div style="text-align: center; margin-top: 20px;"> $\frac{\quad}{8}$ </div>	Write the equivalent improper fraction <div style="text-align: center; margin-top: 20px;"> $3\frac{1}{8} =$ </div>

Draw and label the improper fraction on the number line <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> $\frac{11}{3}$ </div> </div>		
Tell how many wholes you see and the equivalent number of 3 ^{rds} <div style="text-align: center; margin-top: 20px;"> ____ Wholes = $\frac{\quad}{3}$ </div>	Tell the part of the whole <div style="text-align: center; margin-top: 20px;"> $\frac{\quad}{6}$ </div>	Write the equivalent mixed number <div style="text-align: center; margin-top: 20px;"> $\frac{17}{6} =$ </div>

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

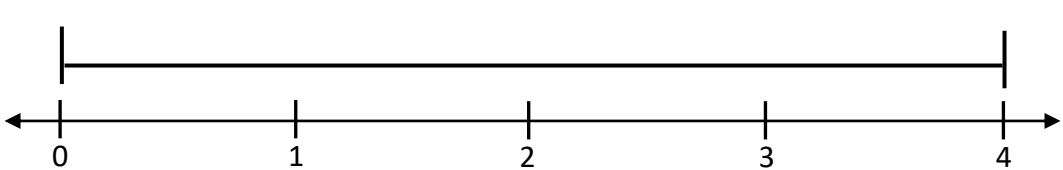
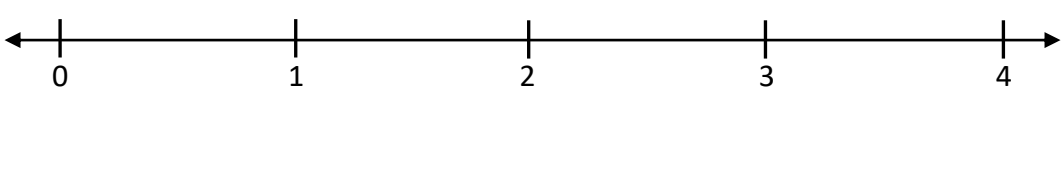
5th Grade - Readiness Standard 5 - 4.NF.3c - Form A

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

<p>Ungroup a whole to subtract one and four-sixths</p> 	<p>Show how you subtracted</p> $\begin{array}{r} 3 \frac{1}{6} \\ - 1 \frac{4}{6} \\ \hline \end{array}$
<p>Tell what you ungrouped and the equivalent mixed number</p> $1 \text{ Whole} = \frac{6}{6} \qquad 3 \frac{1}{6} = 2 \frac{6}{6}$	

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

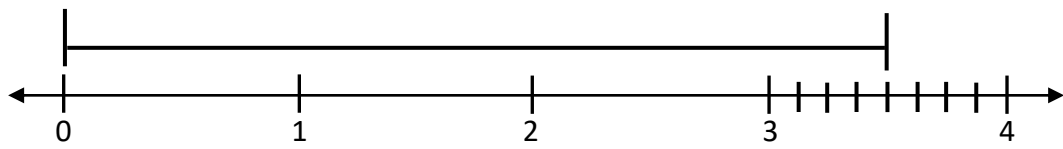
3. You Do Together: Draw, tell and show.

<p>Ungroup a whole to subtract one and three-fourths</p> 	<p>Show how you subtracted</p> $\begin{array}{r} 4 \\ - 1 \frac{3}{4} \\ \hline \end{array}$
<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 <u>adding the whole numbers first</u></p> 	<p>Show how you added</p> $\begin{array}{r} 1 \frac{5}{6} \\ + 1 \frac{3}{6} \\ \hline \end{array}$
<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 add and subtract mixed numbers with like denominators

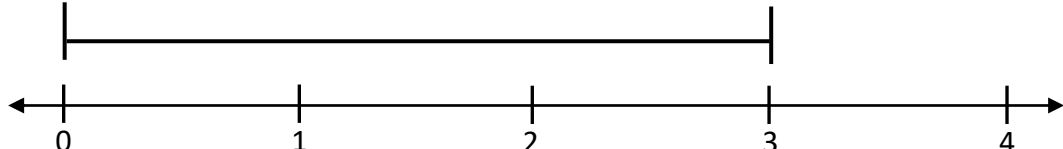
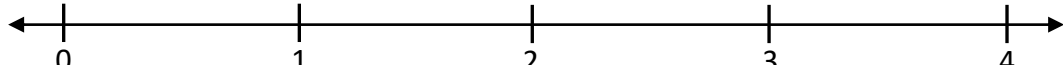
5th Grade - Readiness Standard 5 - 4.NF.3c - Form B

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

<p>Ungroup a whole to subtract two and seven-eighths</p> 	<p>Show how you subtracted</p> $\begin{array}{r} 3\frac{4}{8} \\ - 2\frac{7}{8} \\ \hline \end{array}$
<p>Tell what you ungrouped and the equivalent mixed number</p> $1 \text{ Whole} = \frac{\quad}{8} \qquad 3\frac{4}{8} = 2\frac{\quad}{8}$	

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

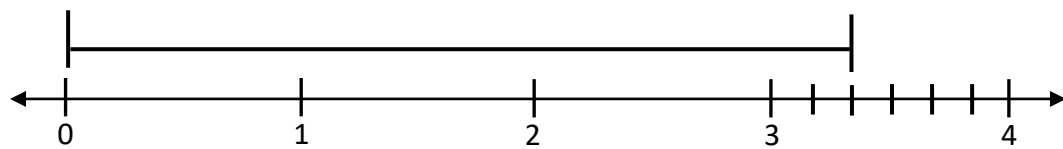
3. You Do Together: Draw, tell and show.

<p>Ungroup a whole to subtract one and five-sixths</p> 	<p>Show how you subtracted</p> $\begin{array}{r} 3 \\ - 1\frac{5}{6} \\ \hline \end{array}$
<p>Tell what you ungrouped and the equivalent mixed number</p> $1 \text{ Whole} = \frac{\quad}{6} \qquad 3\frac{0}{6} = 2\frac{\quad}{6}$	
<p>Draw one and three-fourths plus two and three-fourths by <u>adding the whole numbers first</u></p> 	<p>Show how you added</p> $\begin{array}{r} 1\frac{3}{4} \\ + 2\frac{3}{4} \\ \hline \end{array}$
<p>Tell what you grouped and the equivalent mixed number</p> $\frac{\quad}{4} = 1 \text{ Whole} \qquad \frac{3}{4} + \frac{3}{4} = \frac{\quad}{4} = 1\frac{\quad}{4}$	

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

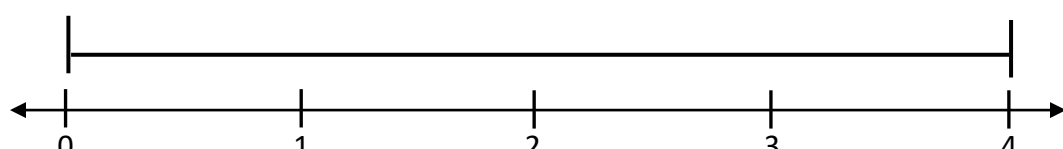
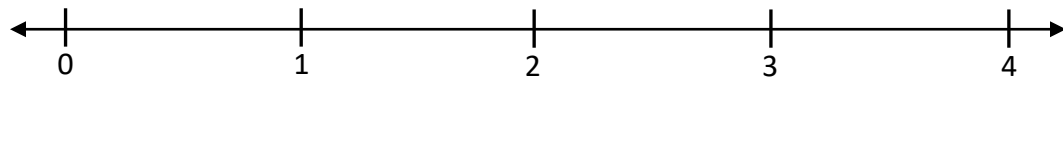
5th Grade - Readiness Standard 5 - 4.NF.3c - Form C

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

<p>Ungroup a whole to subtract one and five-sixths</p> 	<p>Show how you subtracted</p> $\begin{array}{r} 3\frac{2}{6} \\ - 1\frac{5}{6} \\ \hline \end{array}$
<p>Tell what you ungrouped and the equivalent mixed number</p> $1 \text{ Whole} = \frac{6}{6} \qquad 3\frac{2}{6} = 2\frac{6}{6}$	

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

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

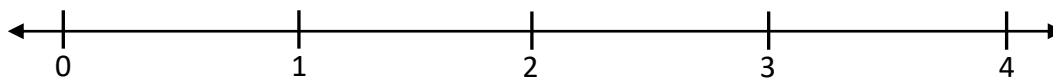
<p>Ungroup a whole to subtract one and five-eighths</p> 	<p>Show how you subtracted</p> $\begin{array}{r} 4 \\ - 1\frac{5}{8} \\ \hline \end{array}$
<p>Tell what you ungrouped and the equivalent mixed number</p> $1 \text{ Whole} = \frac{8}{8} \qquad 4\frac{0}{8} = 3\frac{8}{8}$	
<p>Draw two and four-sixths plus one and five-sixths by <u>adding the whole numbers first</u></p> 	<p>Show how you added</p> $\begin{array}{r} 2\frac{4}{6} \\ + 1\frac{5}{6} \\ \hline \end{array}$
<p>Tell what you grouped and the equivalent mixed number</p> $\frac{6}{6} = 1 \text{ Whole} \qquad \frac{4}{6} + \frac{5}{6} = \frac{9}{6} = 1\frac{3}{6}$	

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

$$4 \times \frac{3}{8} = \frac{3}{8} + \frac{3}{8} + \frac{3}{8} + \frac{3}{8} = \frac{\quad}{8}$$

Multiply to find the total as a mixed number

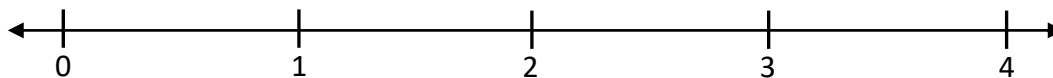
$$\frac{4}{1} \times \frac{3}{8} = \frac{\quad}{8} =$$

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

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

Draw three groups of five-sixths

$$3 \times \frac{5}{6}$$



Add to find the total

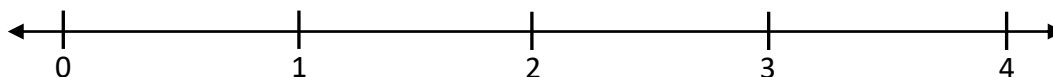
$$3 \times \frac{5}{6} = \frac{5}{6} + \frac{5}{6} + \frac{5}{6} = \frac{\quad}{6}$$

Multiply to find the total as a mixed number

$$\frac{3}{1} \times \frac{5}{6} = \frac{\quad}{6} =$$

Draw five groups of two-thirds

$$5 \times \frac{2}{3}$$



Add to find the total

$$5 \times \frac{2}{3} = \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{\quad}{3}$$

Multiply to find the total as a mixed number

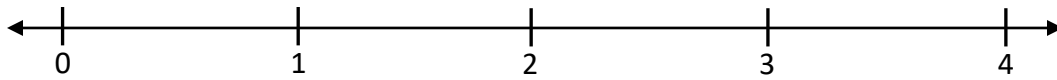
$$\frac{5}{1} \times \frac{2}{3} = \frac{\quad}{3} =$$

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

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

Draw four groups of two-sixths

$$4 \times \frac{2}{6}$$



Add to find the total

$$4 \times \frac{2}{6} = \frac{2}{6} + \frac{2}{6} + \frac{2}{6} + \frac{2}{6} = \frac{\quad}{6}$$

Multiply to find the total as a mixed number

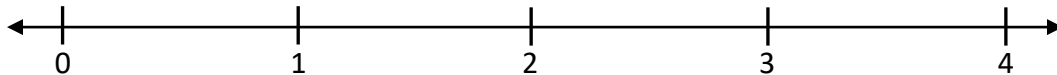
$$\frac{4}{1} \times \frac{2}{6} = \frac{\quad}{6} =$$

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

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

Draw three groups of two-thirds

$$3 \times \frac{2}{3}$$



Add to find the total

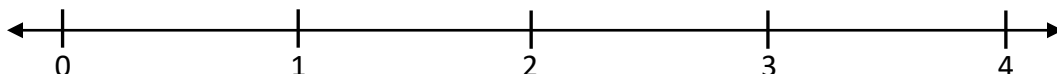
$$3 \times \frac{2}{3} = \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{\quad}{3}$$

Multiply to find the total as a mixed number

$$\frac{3}{1} \times \frac{2}{3} = \frac{\quad}{3} =$$

Draw five groups of four-eighths

$$5 \times \frac{4}{8}$$



Add to find the total

$$5 \times \frac{4}{8} = \frac{4}{8} + \frac{4}{8} + \frac{4}{8} + \frac{4}{8} + \frac{4}{8} = \frac{\quad}{8}$$

Multiply to find the total as a mixed number

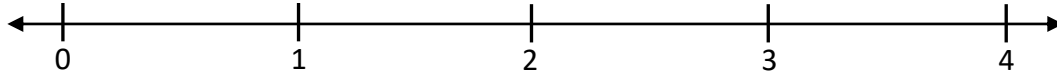
$$\frac{5}{1} \times \frac{4}{8} = \frac{\quad}{8} =$$

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

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

Draw four groups of seven-eighths

$$4 \times \frac{7}{8}$$



Add to find the total

$$4 \times \frac{7}{8} = \frac{7}{8} + \frac{7}{8} + \frac{7}{8} + \frac{7}{8} = \frac{28}{8}$$

Multiply to find the total as a mixed number

$$\frac{4}{1} \times \frac{7}{8} = \frac{28}{8} =$$

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

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

Draw three groups of four-sixths

$$3 \times \frac{4}{6}$$



Add to find the total

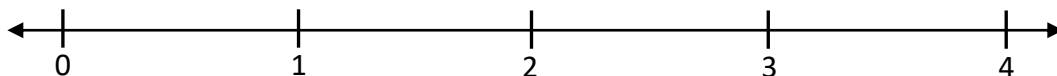
$$3 \times \frac{4}{6} = \frac{4}{6} + \frac{4}{6} + \frac{4}{6} = \frac{12}{6}$$

Multiply to find the total as a mixed number

$$\frac{3}{1} \times \frac{4}{6} = \frac{12}{6} =$$

Draw five groups of one-third

$$5 \times \frac{1}{3}$$



Add to find the total

$$5 \times \frac{1}{3} = \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{5}{3}$$

Multiply to find the total as a mixed number

$$\frac{5}{1} \times \frac{1}{3} = \frac{5}{3} =$$

Learning Target: I will multiply 4-digit by 1-digit numbers and 2-digit by 2-digit numbers

5th Grade - Readiness Standard 1 - 4.NBT.5- Form A

1. We Do Together: Label, multiply and show.

<p>Label the partial lengths if the total length is 189</p> <div style="display: flex; align-items: center; margin-top: 20px;"> <div style="margin-right: 10px;">7</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 33%; padding: 5px;">100</td> <td style="width: 33%; padding: 5px;">80</td> <td style="width: 33%; padding: 5px;">9</td> </tr> <tr> <td style="padding: 5px;">7×100</td> <td style="padding: 5px;">7×80</td> <td style="padding: 5px;">7×9</td> </tr> <tr> <td style="padding: 5px;">700</td> <td style="padding: 5px;">560</td> <td style="padding: 5px;">63</td> </tr> </table> </div>	100	80	9	7×100	7×80	7×9	700	560	63	<p>Show your thinking using numbers and symbols</p> <div style="margin-top: 20px;"> $\begin{array}{r} 189 \\ \times 7 \\ \hline 700 \\ 560 \\ + 63 \\ \hline 1323 \end{array}$ $\begin{array}{r} 63 \\ 560 \\ + 700 \\ \hline 1323 \end{array}$ </div>
100	80	9								
7×100	7×80	7×9								
700	560	63								
<p>Multiply to find each partial area</p>										

2. Reflect: What questions do you have about multiplying a 3-digit number?

3. You Do Together: Label, multiply and show.

<p>Label the partial lengths if the total length is 1896</p> <div style="display: flex; align-items: center; margin-top: 20px;"> <div style="margin-right: 10px;">7</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 25%; padding: 5px;">1000</td> <td style="width: 25%; padding: 5px;">800</td> <td style="width: 25%; padding: 5px;">90</td> <td style="width: 25%; padding: 5px;">6</td> </tr> <tr> <td style="padding: 5px;">7×1000</td> <td style="padding: 5px;">7×800</td> <td style="padding: 5px;">7×90</td> <td style="padding: 5px;">7×6</td> </tr> <tr> <td style="padding: 5px;">7000</td> <td style="padding: 5px;">5600</td> <td style="padding: 5px;">630</td> <td style="padding: 5px;">42</td> </tr> </table> </div>	1000	800	90	6	7×1000	7×800	7×90	7×6	7000	5600	630	42	<p>Show your thinking using numbers and symbols</p> <div style="margin-top: 20px;"> $\begin{array}{r} 1896 \\ \times 7 \\ \hline 7000 \\ 5600 \\ 630 \\ + 42 \\ \hline 13272 \end{array}$ $\begin{array}{r} 42 \\ 5600 \\ + 7000 \\ \hline 13272 \end{array}$ </div>
1000	800	90	6										
7×1000	7×800	7×90	7×6										
7000	5600	630	42										
<p>Multiply to find each partial area</p>													
<p>Label the partial lengths if the total length is 18</p> <div style="display: flex; align-items: center; margin-top: 20px;"> <div style="margin-right: 10px;">10</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 50%; padding: 5px;">10</td> <td style="width: 50%; padding: 5px;">8</td> </tr> <tr> <td style="padding: 5px;">10×10</td> <td style="padding: 5px;">10×8</td> </tr> <tr> <td style="padding: 5px;">100</td> <td style="padding: 5px;">80</td> </tr> </table> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 10px;">7</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 50%; padding: 5px;">7×10</td> <td style="width: 50%; padding: 5px;">7×8</td> </tr> <tr> <td style="padding: 5px;">70</td> <td style="padding: 5px;">56</td> </tr> </table> </div>	10	8	10×10	10×8	100	80	7×10	7×8	70	56	<p>Show your thinking using numbers and symbols</p> <div style="margin-top: 20px;"> $\begin{array}{r} 18 \\ \times 17 \\ \hline 100 \\ 80 \\ 70 \\ + 56 \\ \hline 306 \end{array}$ $\begin{array}{r} 56 \\ 70 \\ 80 \\ + 100 \\ \hline 306 \end{array}$ </div>		
10	8												
10×10	10×8												
100	80												
7×10	7×8												
70	56												
<p>Multiply to find each partial area</p>													

Learning Target: I will divide up to a 4-digit by 1-digit number 5th Grade - Readiness Standard 2 - 4.NBT.6 - Form A

1. We Do Together: List, label, think multiply to divide and show.

<p>List the multiples of 3</p> <p> $3 \times 1 = \underline{3}$ $3 \times 2 = \underline{6}$ $3 \times 3 = \underline{9}$ $3 \times 4 = \underline{12}$ $3 \times 5 = \underline{15}$ $3 \times 6 = \underline{18}$ $3 \times 7 = \underline{21}$ $3 \times 8 = \underline{24}$ $3 \times 9 = \underline{27}$ </p>	<p>Show your thinking using numbers and symbols</p> $ \begin{array}{r} 6 \overline{) 20} \quad 26 \\ \underline{18} \\ 20 \\ \underline{18} \\ 18 \\ \underline{18} \\ 0 \end{array} $		
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center; margin-top: 20px;"> <div style="margin-right: 10px;">3</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;"> $3(\underline{20})$ 60 </td> <td style="padding: 10px;"> $3(\underline{6})$ 18 </td> </tr> </table> </div>	$3(\underline{20})$ 60	$3(\underline{6})$ 18	
$3(\underline{20})$ 60	$3(\underline{6})$ 18		
<p>List the multiples of 9</p> <p> $9 \times 1 = \underline{9}$ $9 \times 2 = \underline{18}$ $9 \times 3 = \underline{27}$ $9 \times 4 = \underline{36}$ $9 \times 5 = \underline{45}$ $9 \times 6 = \underline{54}$ $9 \times 7 = \underline{63}$ $9 \times 8 = \underline{72}$ $9 \times 9 = \underline{81}$ </p>	<p>Show your thinking using numbers and symbols</p> $ \begin{array}{r} 7 \overline{) 60} \quad 67 \\ \underline{63} \\ 60 \\ \underline{54} \\ 63 \\ \underline{63} \\ 0 \end{array} $		
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center; margin-top: 20px;"> <div style="margin-right: 10px;">9</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;"> $9(\underline{60})$ 540 </td> <td style="padding: 10px;"> $9(\underline{7})$ 63 </td> </tr> </table> </div>	$9(\underline{60})$ 540	$9(\underline{7})$ 63	
$9(\underline{60})$ 540	$9(\underline{7})$ 63		

2. Reflect: What questions do you have about dividing a 3-digit number?

Learning Target: I will divide up to a 4-digit by 1-digit number 5th Grade - Readiness Standard 2 - 4.NBT.6 - Form A

3. You Do Together: List, label, think multiply to divide and show.

List the multiples of 7

$$\begin{array}{lll} 7 \times 1 = \underline{7} & 7 \times 2 = \underline{14} & 7 \times 3 = \underline{21} \\ 7 \times 4 = \underline{28} & 7 \times 5 = \underline{35} & 7 \times 6 = \underline{42} \\ 7 \times 7 = \underline{49} & 7 \times 8 = \underline{56} & 7 \times 9 = \underline{63} \end{array}$$

Label the missing lengths

	1000	200	90	3
7	$7(\underline{1000})$	$7(\underline{200})$	$7(\underline{90})$	$7(\underline{3})$
	7000	1400	630	21

Show your thinking using numbers and symbols

$$\begin{array}{r} \overline{)9051} \\ \underline{7000} \\ 2051 \\ \underline{1400} \\ 651 \\ \underline{630} \\ 21 \\ \underline{21} \\ 0 \end{array} \quad \begin{array}{l} 3 \\ 90 \\ 200 \\ 1000 \end{array} \quad 1293$$

List the multiples of 8

$$\begin{array}{lll} 8 \times 1 = \underline{8} & 8 \times 2 = \underline{16} & 8 \times 3 = \underline{24} \\ 8 \times 4 = \underline{32} & 8 \times 5 = \underline{40} & 8 \times 6 = \underline{48} \\ 8 \times 7 = \underline{56} & 8 \times 8 = \underline{64} & 8 \times 9 = \underline{72} \end{array}$$

Label the missing lengths

	700	10	3
8	$8(\underline{700})$	$8(\underline{10})$	$8(\underline{3})$
	5600	80	24

Show your thinking using numbers and symbols

$$\begin{array}{r} \overline{)5704} \\ \underline{5600} \\ 104 \\ \underline{80} \\ 24 \\ \underline{24} \\ 0 \end{array} \quad \begin{array}{l} 3 \\ 10 \\ 700 \end{array} \quad 713$$

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

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

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

< or >
Less Than Greater Than

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

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.
Rename one fraction to create common denominators $\frac{2}{3} = \frac{2 \cdot 2}{3 \cdot 2} = \frac{4}{6}$ $\frac{5}{6}$	Rename each fraction to create common denominators $\frac{1}{3} = \frac{1 \cdot 4}{3 \cdot 4} = \frac{4}{12}$ $\frac{1}{4} = \frac{1 \cdot 3}{4 \cdot 3} = \frac{3}{12}$
Label each point on the number line 	Label each point on the number line
Compare using > or < $\frac{2}{3} < \frac{5}{6}$	Compare using > or < $\frac{1}{3} > \frac{1}{4}$

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.

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

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

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

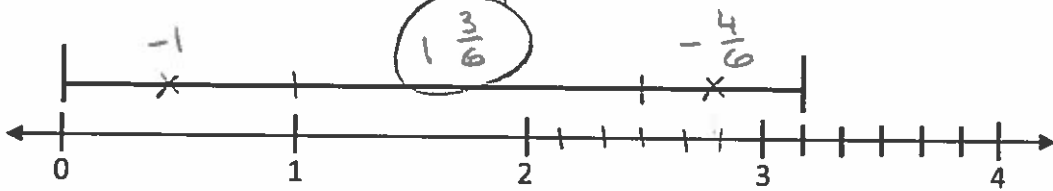
<p>Draw and label the mixed number on the number line</p>		
<p>Tell how many 8^{ths} equals 3 wholes</p> <p>3 Wholes = $\frac{24}{8}$</p>	<p>Tell the part of the whole</p> <p>$\frac{5}{8}$</p>	<p>Write the equivalent improper fraction</p> <p>$3 \frac{5}{8} = \frac{29}{8}$</p>

<p>Draw and label the improper fraction on the number line</p>		
<p>Tell how many wholes you see and the equivalent number of 3^{ths}</p> <p><u>2</u> Wholes = $\frac{6}{3}$</p>	<p>Tell the part of the whole</p> <p>$\frac{2}{3}$</p>	<p>Write the equivalent mixed number</p> <p>$\frac{8}{3} = 2 \frac{2}{3}$</p>

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

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

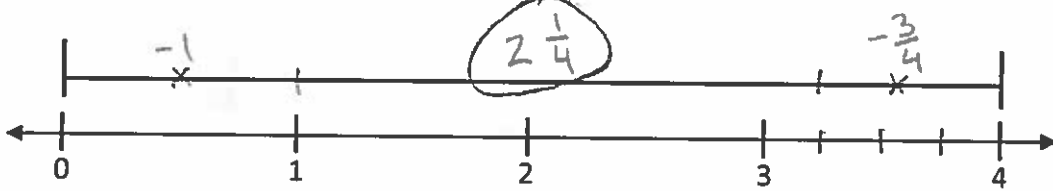
1. We Do Together: Draw, ungroup and show.

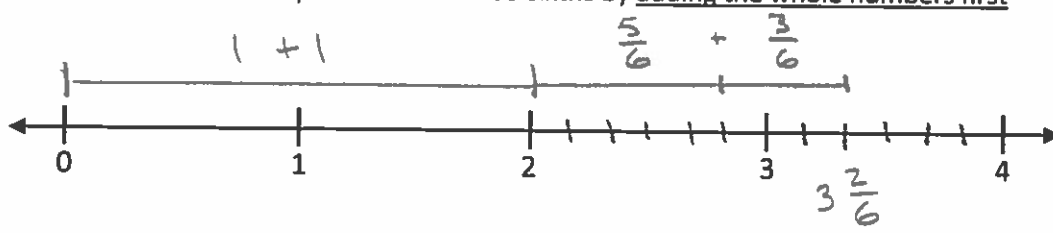
<p>Ungroup a whole to subtract one and four-sixths</p> 	<p>Show how you subtracted</p> $ \begin{array}{r} 2\frac{7}{6} \\ - 1\frac{4}{6} \\ \hline 1\frac{3}{6} \text{ or } 1\frac{1}{2} \end{array} $
<p>Tell what you ungrouped and the equivalent mixed number</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div> $1 \text{ Whole} = \frac{6}{6}$ </div> <div> $3\frac{1}{6} = 2\frac{7}{6}$ </div> </div>	

$$\frac{3 \cdot 1}{3 \cdot 2} = \frac{1}{2}$$

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> $ \begin{array}{r} 3\frac{4}{4} \\ - 1\frac{3}{4} \\ \hline 2\frac{1}{4} \end{array} $
<p>Tell what you ungrouped and the equivalent mixed number</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div> $1 \text{ Whole} = \frac{4}{4}$ </div> <div> $4\frac{0}{4} = 3\frac{4}{4}$ </div> </div>	

<p>Draw one and five-sixths plus one and three-sixths by adding the whole numbers first</p> 	<p>Show how you added</p> <div style="display: flex; align-items: center;"> <div style="flex: 1;"> $\begin{array}{r} 1\frac{5}{6} \\ + 1\frac{3}{6} \\ \hline 2\frac{8}{6} = 3\frac{2}{6} \text{ or } 3\frac{1}{3} \end{array}$ </div> <div style="flex: 0.5; text-align: center; font-size: small;"> $\frac{2 \cdot 1}{2 \cdot 3} = \frac{1}{3}$ ↓ </div> </div>
<p>Tell what you grouped and the equivalent mixed number</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div> $\frac{6}{6} = 1 \text{ Whole}$ </div> <div> $\frac{5}{6} + \frac{3}{6} = \frac{8}{6} = 1\frac{2}{6}$ </div> </div>	

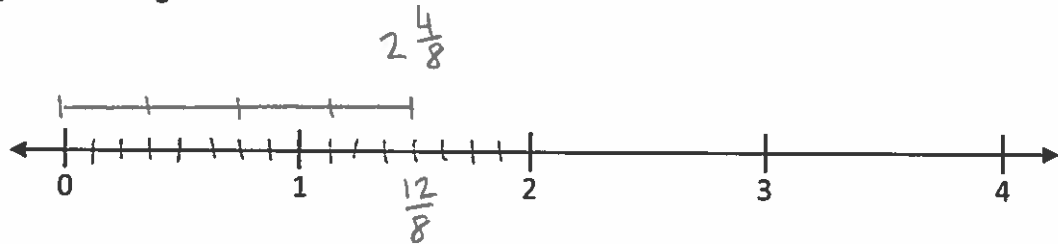
Learning Target: I will multiply a whole number by a fraction

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

$$\frac{4}{1} \times \frac{3}{8} = \frac{12}{8} = 1 \frac{4}{8} \text{ or } 1 \frac{1}{2}$$



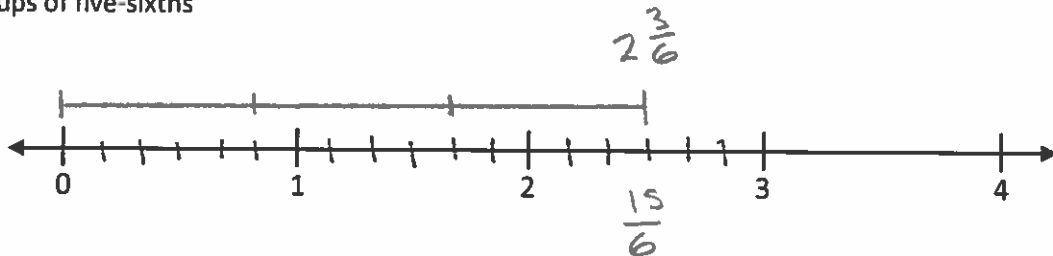
2. Reflect: What questions do you have about multiplying a whole number by a fraction?

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

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

Draw three groups of five-sixths

$$3 \times \frac{5}{6}$$



Add to find the total

$$3 \times \frac{5}{6} = \frac{5}{6} + \frac{5}{6} + \frac{5}{6} = \frac{15}{6}$$

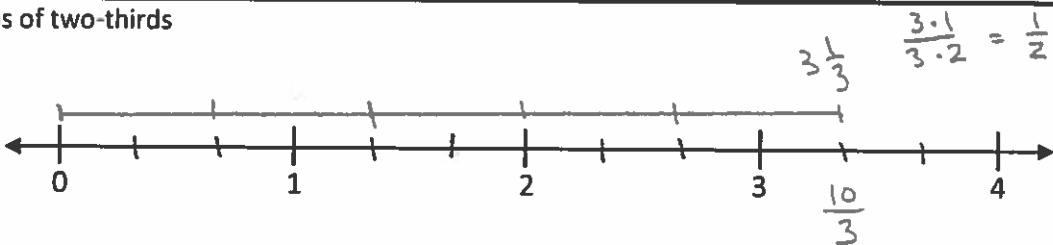
Multiply to find the total as a mixed number

$$\frac{3}{1} \times \frac{5}{6} = \frac{15}{6} = 2 \frac{3}{6} \text{ or } 2 \frac{1}{2}$$



Draw five groups of two-thirds

$$5 \times \frac{2}{3}$$



$$\frac{3 \cdot 1}{3 \cdot 2} = \frac{1}{2}$$

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

$$\frac{5}{1} \times \frac{2}{3} = \frac{10}{3} = 3 \frac{1}{3}$$