



Additional Guided Practice

6th Grade Readiness Standards

5.NBT.5, 5.NBT.6, 5.NF.1, 5.NF.4b, 5.NF.7a, 5.NF.7b

- 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

Learning Target: I will multiply multi-digit numbers

6th Grade - Readiness Standard 2 - 5.NBT.5 - Form A

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

<p>Label the partial lengths if the total length is 2864</p> <div style="display: flex; align-items: center; margin-top: 20px;"> <div style="margin-right: 10px;">7</div> <div style="border: 1px solid black; width: 400px; height: 80px; position: relative;"> <div style="position: absolute; left: -40px; top: 50%; transform: translateY(-50%);">7</div> </div> </div>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 2864 \\ \times \quad 7 \\ \hline \end{array}$ </div>
<p>Multiply to find each partial area</p>	

2. Reflect: What questions do you have about multiplying multi-digit numbers?

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

<p>Label the partial lengths if the total length is 28</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: 280px; height: 100px; position: relative;"> <div style="position: absolute; left: -40px; top: 50%; transform: translateY(-50%);">10</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: 280px; height: 40px; position: relative;"> <div style="position: absolute; left: -40px; top: 50%; transform: translateY(-50%);">7</div> </div> </div>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 28 \\ \times 17 \\ \hline \end{array}$ </div>
<p>Multiply to find each partial area</p>	
<p>Label the partial lengths if the total length is 286</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: 350px; height: 100px; position: relative;"> <div style="position: absolute; left: -40px; top: 50%; transform: translateY(-50%);">10</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: 350px; height: 40px; position: relative;"> <div style="position: absolute; left: -40px; top: 50%; transform: translateY(-50%);">7</div> </div> </div>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 286 \\ \times 17 \\ \hline \end{array}$ </div>
<p>Multiply to find each partial area</p>	

Learning Target: I will multiply multi-digit numbers

6th Grade - Readiness Standard 2 - 5.NBT.5 - Form B

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

<p>Label the partial lengths if the total length is 3947</p> <div style="display: flex; align-items: center; margin-top: 20px;"> <div style="margin-right: 10px;">6</div> <table border="1" style="border-collapse: collapse; width: 400px; height: 80px;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table> </div>					<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 3947 \\ \times \quad 6 \\ \hline \end{array}$ </div>
<p>Multiply to find each partial area</p>					

2. Reflect: What questions do you have about multiplying multi-digit numbers?

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

<p>Label the partial lengths if the total length is 39</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; width: 280px; height: 100px;"> <tr> <td style="width: 75%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td style="height: 30px;"></td> <td style="height: 30px;"></td> </tr> </table> </div> <div style="margin-top: 10px;"> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">6</div> <table border="1" style="border-collapse: collapse; width: 280px; height: 40px;"> <tr> <td style="width: 75%;"></td> <td style="width: 25%;"></td> </tr> </table> </div> </div>							<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 39 \\ \times 16 \\ \hline \end{array}$ </div>			
<p>Multiply to find each partial area</p>										
<p>Label the partial lengths if the total length is 394</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; width: 280px; height: 100px;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> <tr> <td style="height: 30px;"></td> <td style="height: 30px;"></td> <td style="height: 30px;"></td> </tr> </table> </div> <div style="margin-top: 10px;"> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">6</div> <table border="1" style="border-collapse: collapse; width: 280px; height: 40px;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table> </div> </div>										<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 394 \\ \times 16 \\ \hline \end{array}$ </div>
<p>Multiply to find each partial area</p>										

Learning Target: I will multiply multi-digit numbers

6th Grade - Readiness Standard 2 - 5.NBT.5 - Form C

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

<p>Label the partial lengths if the total length is 4963</p> <div style="display: flex; align-items: center; margin-top: 20px;"> <div style="margin-right: 10px;">8</div> <div style="border: 1px solid black; width: 400px; height: 80px; position: relative;"> <div style="position: absolute; left: -40px; top: 50%; transform: translateY(-50%);">8</div> </div> </div>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 4963 \\ \times \quad 8 \\ \hline \end{array}$ </div>
<p>Multiply to find each partial area</p>	

2. Reflect: What questions do you have about multiplying multi-digit numbers?

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

<p>Label the partial lengths if the total length is 49</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: 280px; height: 100px; position: relative;"> <div style="position: absolute; left: -40px; top: 50%; transform: translateY(-50%);">10</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: 280px; height: 40px; position: relative;"> <div style="position: absolute; left: -40px; top: 50%; transform: translateY(-50%);">8</div> </div> </div>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 49 \\ \times 18 \\ \hline \end{array}$ </div>
<p>Multiply to find each partial area</p>	
<p>Label the partial lengths if the total length is 496</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: 340px; height: 100px; position: relative;"> <div style="position: absolute; left: -40px; top: 50%; transform: translateY(-50%);">10</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: 340px; height: 40px; position: relative;"> <div style="position: absolute; left: -40px; top: 50%; transform: translateY(-50%);">8</div> </div> </div>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: center; margin-top: 20px;"> $\begin{array}{r} 496 \\ \times 18 \\ \hline \end{array}$ </div>
<p>Multiply to find each partial area</p>	

Learning Target: I will divide 4-digit number

6th Grade - Readiness Standard 3 - 5.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: 1.2em;"> $3 \overline{) 7092}$ </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: 5px;">3(____)</td> <td style="padding: 5px;">3(____)</td> <td style="padding: 5px;">3(____)</td> <td style="padding: 5px;">3(____)</td> </tr> <tr> <td style="padding: 5px;">6000</td> <td style="padding: 5px;">900</td> <td style="padding: 5px;">180</td> <td style="padding: 5px;">12</td> </tr> </table> </div>	3(____)	3(____)	3(____)	3(____)	6000	900	180	12	
3(____)	3(____)	3(____)	3(____)						
6000	900	180	12						
<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; font-size: 1.2em;"> $7 \overline{) 5852}$ </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;">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> </tr> <tr> <td style="padding: 5px;">5600</td> <td style="padding: 5px;">210</td> <td style="padding: 5px;">42</td> </tr> </table> </div>	7(____)	7(____)	7(____)	5600	210	42			
7(____)	7(____)	7(____)							
5600	210	42							

2. Reflect: What questions do you have about dividing a 4-digit number?

Learning Target: I will divide 4-digit number

6th Grade - Readiness Standard 3 - 5.NBT.6 - Form A

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

<p>List the multiples of 20</p> <p>20 x 1 = _____ 20 x 2 = _____ 20 x 3 = _____</p> <p>20 x 4 = _____ 20 x 5 = _____ 20 x 6 = _____</p> <p>20 x 7 = _____ 20 x 8 = _____ 20 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: right; font-family: monospace; font-size: 1.2em;"> 20 $\overline{) 6540}$ </div>			
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">20</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">20(_____) 6000</td> <td style="padding: 10px;">20(_____) 400</td> <td style="padding: 10px;">20(_____) 140</td> </tr> </table> </div>	20(_____) 6000	20(_____) 400	20(_____) 140	
20(_____) 6000	20(_____) 400	20(_____) 140		
<p>List the multiples of 14</p> <p>14 x 1 = _____ 14 x 2 = _____ 14 x 3 = _____</p> <p>14 x 4 = _____ 14 x 5 = _____ 14 x 6 = _____</p> <p>14 x 7 = _____ 14 x 8 = _____ 14 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: right; font-family: monospace; font-size: 1.2em;"> 14 $\overline{) 8246}$ </div>			
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">14</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">14(_____) 7000</td> <td style="padding: 10px;">14(_____) 1120</td> <td style="padding: 10px;">14(_____) 126</td> </tr> </table> </div>	14(_____) 7000	14(_____) 1120	14(_____) 126	
14(_____) 7000	14(_____) 1120	14(_____) 126		

Learning Target: I will divide 4-digit number

6th Grade - Readiness Standard 3 - 5.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: right; font-family: monospace; font-size: 1.2em;"> 4 $\overline{) 9268}$ </div>								
<p>Label the missing lengths</p> <div style="display: flex; align-items: 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: 5px;">4(____)</td> <td style="padding: 5px;">4(____)</td> <td style="padding: 5px;">4(____)</td> <td style="padding: 5px;">4(____)</td> </tr> <tr> <td style="padding: 5px;">8000</td> <td style="padding: 5px;">1200</td> <td style="padding: 5px;">40</td> <td style="padding: 5px;">28</td> </tr> </table> </div>	4(____)	4(____)	4(____)	4(____)	8000	1200	40	28	
4(____)	4(____)	4(____)	4(____)						
8000	1200	40	28						
<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: right; font-family: monospace; font-size: 1.2em;"> 9 $\overline{) 6732}$ </div>								
<p>Label the missing lengths</p> <div style="display: flex; align-items: 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: 5px;">9(____)</td> <td style="padding: 5px;">9(____)</td> <td style="padding: 5px;">9(____)</td> </tr> <tr> <td style="padding: 5px;">6300</td> <td style="padding: 5px;">360</td> <td style="padding: 5px;">72</td> </tr> </table> </div>	9(____)	9(____)	9(____)	6300	360	72			
9(____)	9(____)	9(____)							
6300	360	72							

2. Reflect: What questions do you have about dividing a 4-digit number?

Learning Target: I will divide 4-digit number

6th Grade - Readiness Standard 3 - 5.NBT.6 - Form B

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

<p>List the multiples of 30</p> <p>30 x 1 = _____ 30 x 2 = _____ 30 x 3 = _____</p> <p>30 x 4 = _____ 30 x 5 = _____ 30 x 6 = _____</p> <p>30 x 7 = _____ 30 x 8 = _____ 30 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: right; font-family: monospace; font-size: 1.2em;"> 30 $\overline{) 8670}$ </div>			
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">30</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">30(_____) 6000</td> <td style="padding: 10px;">30(_____) 2400</td> <td style="padding: 10px;">30(_____) 270</td> </tr> </table> </div>	30(_____) 6000	30(_____) 2400	30(_____) 270	
30(_____) 6000	30(_____) 2400	30(_____) 270		
<p>List the multiples of 12</p> <p>12 x 1 = _____ 12 x 2 = _____ 12 x 3 = _____</p> <p>12 x 4 = _____ 12 x 5 = _____ 12 x 6 = _____</p> <p>12 x 7 = _____ 12 x 8 = _____ 12 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: right; font-family: monospace; font-size: 1.2em;"> 12 $\overline{) 7644}$ </div>			
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">12</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">12(_____) 7200</td> <td style="padding: 10px;">12(_____) 360</td> <td style="padding: 10px;">12(_____) 84</td> </tr> </table> </div>	12(_____) 7200	12(_____) 360	12(_____) 84	
12(_____) 7200	12(_____) 360	12(_____) 84		

Learning Target: I will divide 4-digit number

6th Grade - Readiness Standard 3 - 5.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;"> $3 \overline{) 8916}$ </div>								
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">3</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">3(____)</td> <td style="padding: 5px;">3(____)</td> <td style="padding: 5px;">3(____)</td> <td style="padding: 5px;">3(____)</td> </tr> <tr> <td style="padding: 5px;">6000</td> <td style="padding: 5px;">2700</td> <td style="padding: 5px;">30</td> <td style="padding: 5px;">18</td> </tr> </table> </div>	3(____)	3(____)	3(____)	3(____)	6000	2700	30	18	
3(____)	3(____)	3(____)	3(____)						
6000	2700	30	18						
<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;"> $8 \overline{) 7576}$ </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: 5px;">8(____)</td> <td style="padding: 5px;">8(____)</td> <td style="padding: 5px;">8(____)</td> </tr> <tr> <td style="padding: 5px;">7200</td> <td style="padding: 5px;">320</td> <td style="padding: 5px;">56</td> </tr> </table> </div>	8(____)	8(____)	8(____)	7200	320	56			
8(____)	8(____)	8(____)							
7200	320	56							

2. Reflect: What questions do you have about dividing a 4-digit number?

Learning Target: I will divide 4-digit number

6th Grade - Readiness Standard 3 - 5.NBT.6 - Form C

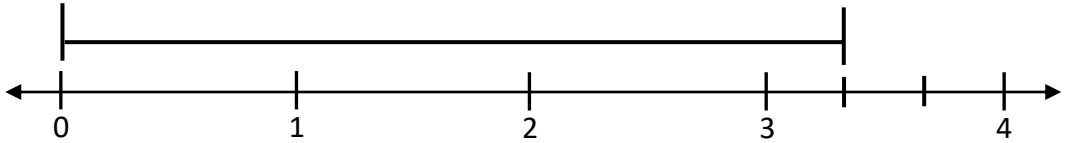
3. You Do Together: List, label, think multiply to divide and show.

<p>List the multiples of 40</p> <p>40 x 1 = _____ 40 x 2 = _____ 40 x 3 = _____</p> <p>40 x 4 = _____ 40 x 5 = _____ 40 x 6 = _____</p> <p>40 x 7 = _____ 40 x 8 = _____ 40 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: right; font-family: monospace; font-size: 1.2em;"> 40 $\overline{) 9560}$ </div>			
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">40</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">40(_____) 8000</td> <td style="padding: 10px;">40(_____) 1200</td> <td style="padding: 10px;">40(_____) 360</td> </tr> </table> </div>	40(_____) 8000	40(_____) 1200	40(_____) 360	
40(_____) 8000	40(_____) 1200	40(_____) 360		
<p>List the multiples of 13</p> <p>13 x 1 = _____ 13 x 2 = _____ 13 x 3 = _____</p> <p>13 x 4 = _____ 13 x 5 = _____ 13 x 6 = _____</p> <p>13 x 7 = _____ 13 x 8 = _____ 13 x 9 = _____</p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: right; font-family: monospace; font-size: 1.2em;"> 13 $\overline{) 9464}$ </div>			
<p>Label the missing lengths</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">13</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 10px;">13(_____) 9100</td> <td style="padding: 10px;">13(_____) 260</td> <td style="padding: 10px;">13(_____) 104</td> </tr> </table> </div>	13(_____) 9100	13(_____) 260	13(_____) 104	
13(_____) 9100	13(_____) 260	13(_____) 104		

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

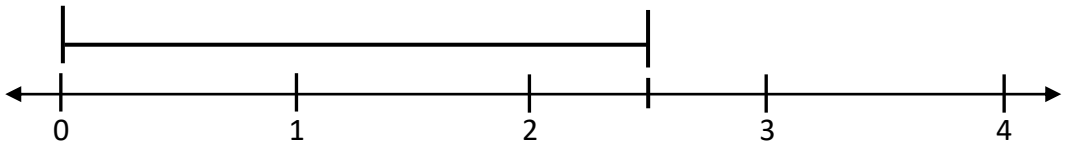

6th Grade - Readiness Standard 4 - 5.NF.1 - Form A

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

Rewrite using common denominators $\begin{array}{r} 3\frac{1}{3} \\ - 1\frac{5}{6} \\ \hline \end{array}$	Show the common denominators and ungroup to subtract 	
	Tell what you ungrouped and the equivalent mixed number $1 \text{ Whole} = \frac{\quad}{6} \qquad 3\frac{2}{6} = 2\frac{\quad}{6}$	Show your thinking using numbers and symbols in the box to the far left

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

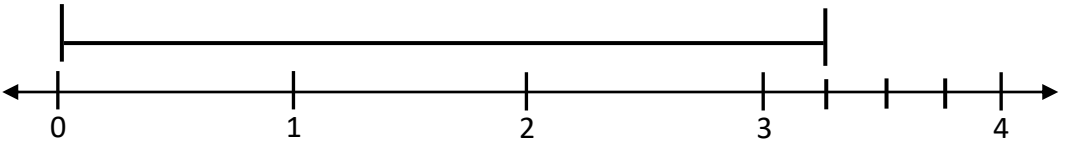
3. You Do Together: Rewrite, draw, tell and show.

Rewrite using common denominators $\begin{array}{r} 2\frac{1}{2} \\ - 1\frac{7}{8} \\ \hline \end{array}$	Draw the total, ungroup if necessary, then subtract 	
	Tell what you ungrouped and the equivalent mixed number $1 \text{ Whole} = \frac{\quad}{8} \qquad 2\frac{4}{8} = 1\frac{\quad}{8}$	Show your thinking using numbers and symbols in the box to the far left
Rewrite using common denominators $\begin{array}{r} 1\frac{2}{3} \\ + 1\frac{3}{4} \\ \hline \end{array}$	Draw the total by <u>adding the whole numbers first</u> 	
	Tell what you grouped and the equivalent mixed number $1 \text{ Whole} = \frac{\quad}{12} \qquad \frac{8}{12} + \frac{9}{12} = \frac{\quad}{12} = 1\frac{\quad}{12}$	Show your thinking using numbers and symbols in the box to the far left

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

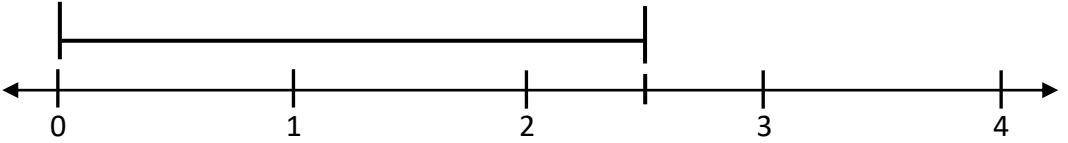
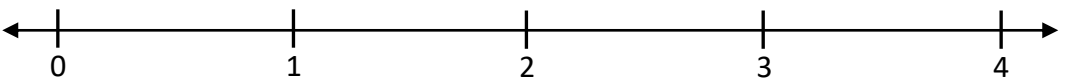
6th Grade - Readiness Standard 4 - 5.NF.1 - Form B

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

<p>Rewrite using common denominators</p> $\begin{array}{r} 3\frac{1}{4} \\ - 1\frac{7}{8} \\ \hline \end{array}$	<p>Show the common denominators and ungroup to subtract</p> 	
	<p>Tell what you ungrouped and the equivalent mixed number</p> $1 \text{ Whole} = \frac{\quad}{8} \qquad 3\frac{2}{8} = 2\frac{\quad}{8}$	<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?

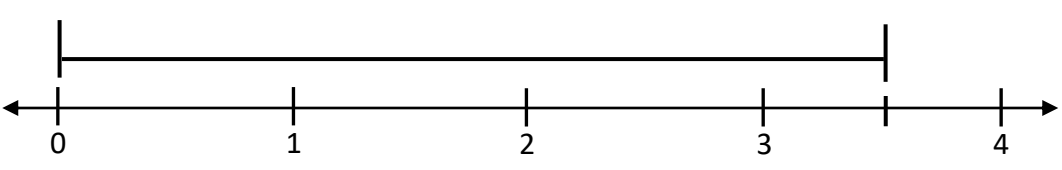
3. You Do Together: Rewrite, draw, tell and show.

<p>Rewrite using common denominators</p> $\begin{array}{r} 2\frac{1}{2} \\ - 1\frac{5}{6} \\ \hline \end{array}$	<p>Draw the total, ungroup if necessary, then subtract</p> 	
<p>Rewrite using common denominators</p> $\begin{array}{r} 1\frac{3}{4} \\ + 1\frac{2}{3} \\ \hline \end{array}$	<p>Draw the total by <u>adding the whole numbers first</u></p> 	
	<p>Tell what you ungrouped and the equivalent mixed number</p> $1 \text{ Whole} = \frac{\quad}{6} \qquad 2\frac{3}{6} = 1\frac{\quad}{6}$	<p>Show your thinking using numbers and symbols in the box to the far left</p>
	<p>Tell what you grouped and the equivalent mixed number</p> $1 \text{ Whole} = \frac{\quad}{12} \qquad \frac{9}{12} + \frac{8}{12} = \frac{\quad}{12} = 1\frac{\quad}{12}$	<p>Show your thinking using numbers and symbols in the box to the far left</p>

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

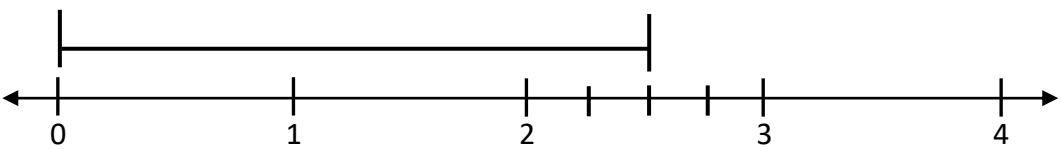
6th Grade - Readiness Standard 4 - 5.NF.1 - Form C

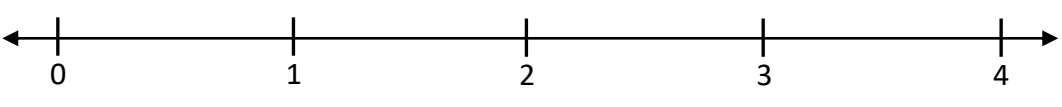
1. We Do Together: Rewrite, draw, tell and show.

Rewrite using common denominators $\begin{array}{r} 3\frac{1}{2} \\ - 1\frac{5}{8} \\ \hline \end{array}$	Show the common denominators and ungroup to subtract 	
Tell what you ungrouped and the equivalent mixed number $1 \text{ Whole} = \frac{\quad}{8} \qquad 3\frac{4}{8} = 2\frac{\quad}{8}$		Show your thinking using numbers and symbols in the box to the far left

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

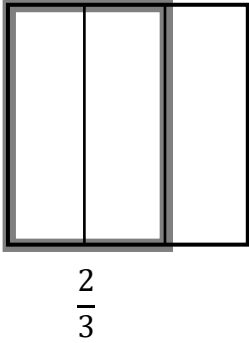
3. You Do Together: Rewrite, draw, tell and show.

Rewrite using common denominators $\begin{array}{r} 2\frac{1}{4} \\ - 1\frac{7}{8} \\ \hline \end{array}$	Draw the total, ungroup if necessary, then subtract 	
Tell what you ungrouped and the equivalent mixed number $1 \text{ Whole} = \frac{\quad}{8} \qquad 2\frac{2}{8} = 1\frac{\quad}{8}$		Show your thinking using numbers and symbols in the box to the far left

Rewrite using common denominators $\begin{array}{r} 1\frac{1}{2} \\ + 1\frac{2}{3} \\ \hline \end{array}$	Draw the total by <u>adding the whole numbers first</u> 	
Tell what you grouped and the equivalent mixed number $1 \text{ Whole} = \frac{\quad}{6} \qquad \frac{3}{6} + \frac{4}{6} = \frac{\quad}{6} = 1\frac{\quad}{6}$		Show your thinking using numbers and symbols in the box to the far left

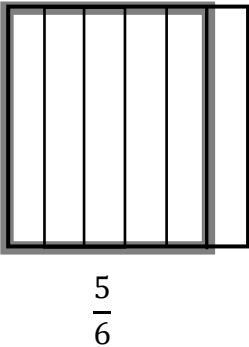
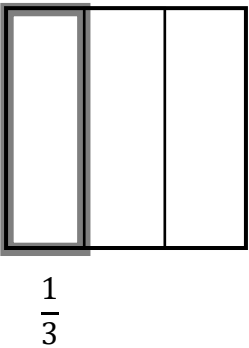
Learning Target: I will multiply a whole number by a fraction 6th Grade - Readiness Standard 5 - 5.NF.4b - Form A

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

<p>Draw 1-fourth of 2-thirds of the whole</p>  <p style="text-align: center;">$\frac{2}{3}$</p>	<p>Identify the size of 1-fourth of the 2-thirds</p> <p>1-fourth of 2-thirds is _____ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{1}{4} \times \frac{2}{3} =$
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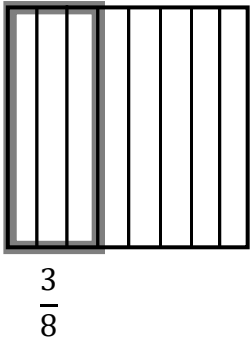
2. Reflect: What questions do you have about multiplying a whole number by a fraction?

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

<p>Draw 2-thirds of 5-sixths of the whole</p>  <p style="text-align: center;">$\frac{5}{6}$</p>	<p>Identify the size of 2-thirds of the 5-sixths</p> <p>2-thirds of 5-sixths is _____ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{2}{3} \times \frac{5}{6} =$
<p>Draw 3-fourths of 1-third of the whole</p>  <p style="text-align: center;">$\frac{1}{3}$</p>	<p>Identify the size of 3-fourths of the 1-third</p> <p>3-fourths of 1-third is _____ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{3}{4} \times \frac{1}{3} =$

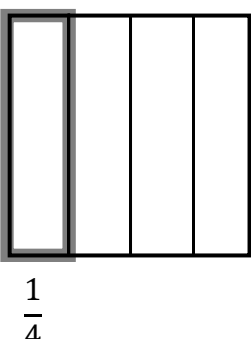
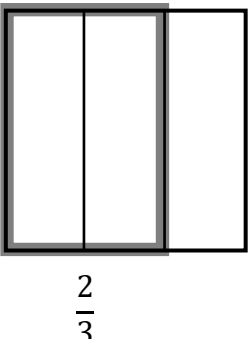
Learning Target: I will multiply a whole number by a fraction 6th Grade - Readiness Standard 5 - 5.NF.4b - Form B

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

<p>Draw 2-thirds of 3-eighths of the whole</p>  <p style="text-align: center;">$\frac{3}{8}$</p>	<p>Identify the size of 2-thirds of the 3-eighths</p> <p>2-thirds of 3-eighths is _____ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{2}{3} \times \frac{3}{8} =$
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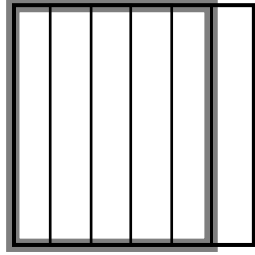
2. Reflect: What questions do you have about multiplying a whole number by a fraction?

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

<p>Draw 5-sixths of 1-fourth of the whole</p>  <p style="text-align: center;">$\frac{1}{4}$</p>	<p>Identify the size of 5-sixths of the 1-fourth</p> <p>5-sixths of 1-fourth of is _____ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{5}{6} \times \frac{1}{4} =$
<p>Draw 1-sixth of 2-thirds of the whole</p>  <p style="text-align: center;">$\frac{2}{3}$</p>	<p>Identify the size of 1-sixth of the 2-thirds</p> <p>1-sixth of 2-thirds is _____ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{1}{6} \times \frac{2}{3} =$

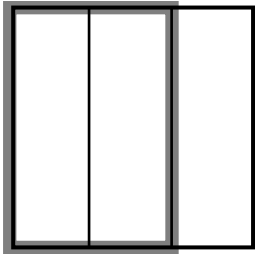
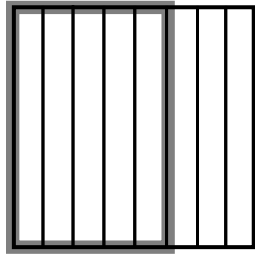
Learning Target: I will multiply a whole number by a fraction 6th Grade - Readiness Standard 5 - 5.NF.4b - Form C

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

<p>Draw 1-third of 5-sixths of the whole</p>  <p style="text-align: center;">$\frac{5}{6}$</p>	<p>Identify the size of 1-third of the 5-sixths</p> <p>1-third of 5-sixths is _____ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{1}{3} \times \frac{5}{6} =$
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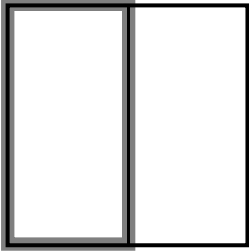
2. Reflect: What questions do you have about multiplying a whole number by a fraction?

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

<p>Draw 3-fourths of 2-thirds of the whole</p>  <p style="text-align: center;">$\frac{2}{3}$</p>	<p>Identify the size of 3-fourths of the 2-thirds</p> <p>3-fourths of 2-thirds is _____ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{3}{4} \times \frac{2}{3} =$
<p>Draw 1-third of 5-eighths of the whole</p>  <p style="text-align: center;">$\frac{5}{8}$</p>	<p>Identify the size of 1-third of the 5-eighths</p> <p>1-third of 5-eighths is _____ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{1}{3} \times \frac{5}{8} =$

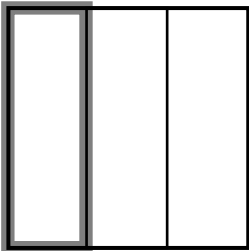
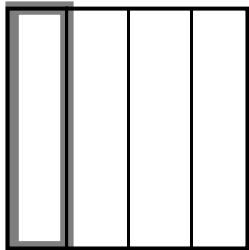
Learning Target: I will divide a unit fraction by a whole number 6th Grade - Readiness Standard 6 - 5.NF.7a - Form A

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>$\frac{1}{2}$</p>	<p>Identify the size of each part</p> $\frac{1}{2} \div 4 =$	<p>Think multiply to divide</p> $\frac{1}{2} \times \frac{1}{4} =$
<p>Share how 4 is related to $\frac{1}{4}$</p>		

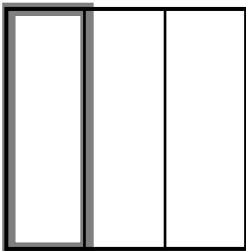
2. Reflect: What questions do you have about dividing a unit fraction by a whole number?

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>$\frac{1}{3}$</p>	<p>Identify the size of each part</p> $\frac{1}{3} \div 2 =$	<p>Think multiply to divide</p> $\frac{1}{3} \times \frac{1}{2} =$
<p>Share how 2 is related to $\frac{1}{2}$</p>		
<p>Divide 1-fourth of the whole into 3 equal parts</p>  <p>$\frac{1}{4}$</p>	<p>Identify the size of each part</p> $\frac{1}{4} \div 3 =$	<p>Think multiply to divide</p> $\frac{1}{4} \times \frac{1}{3} =$
<p>Share how 3 is related to $\frac{1}{3}$</p>		

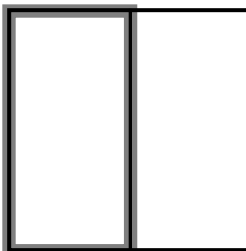
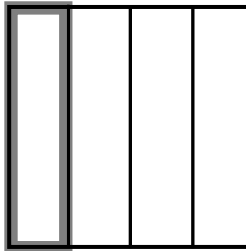
Learning Target: I will divide a unit fraction by a whole number 6th Grade - Readiness Standard 6 - 5.NF.7a - Form B

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

<p>Divide 1-third of the whole into 4 equal parts</p>  <p>$\frac{1}{3}$</p>	<p>Identify the size of each part</p> $\frac{1}{3} \div 4 =$	<p>Think multiply to divide</p> $\frac{1}{3} \times \frac{1}{4} =$
<p>Share how 4 is related to $\frac{1}{4}$</p>		

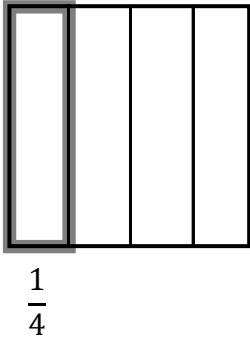
2. Reflect: What questions do you have about dividing a unit fraction by a whole number?

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

<p>Divide 1-half of the whole into 3 equal parts</p>  <p>$\frac{1}{2}$</p>	<p>Identify the size of each part</p> $\frac{1}{2} \div 3 =$	<p>Think multiply to divide</p> $\frac{1}{2} \times \frac{1}{3} =$
<p>Share how 3 is related to $\frac{1}{3}$</p>		
<p>Divide 1-fourth of the whole into 6 equal parts</p>  <p>$\frac{1}{4}$</p>	<p>Identify the size of each part</p> $\frac{1}{4} \div 6 =$	<p>Think multiply to divide</p> $\frac{1}{4} \times \frac{1}{6} =$
<p>Share how 6 is related to $\frac{1}{6}$</p>		

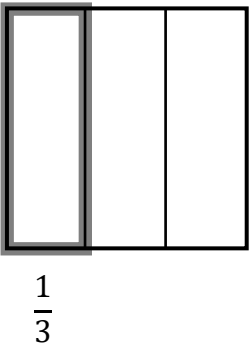
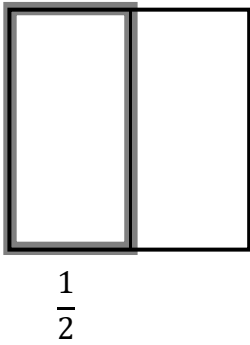
Learning Target: I will divide a unit fraction by a whole number 6th Grade - Readiness Standard 6 - 5.NF.7a - Form C

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

<p>Divide 1-fourth of the whole into 3 equal parts</p>  <p>$\frac{1}{4}$</p>	<p>Identify the size of each part</p> $\frac{1}{4} \div 3 =$	<p>Think multiply to divide</p> $\frac{1}{4} \times \frac{1}{3} =$
<p>Share how 3 is related to $\frac{1}{3}$</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 6 equal parts</p>  <p>$\frac{1}{3}$</p>	<p>Identify the size of each part</p> $\frac{1}{3} \div 6 =$	<p>Think multiply to divide</p> $\frac{1}{3} \times \frac{1}{6} =$
<p>Share how 6 is related to $\frac{1}{6}$</p>		
<p>Divide 1-half of the whole into 8 equal parts</p>  <p>$\frac{1}{2}$</p>	<p>Identify the size of each part</p> $\frac{1}{2} \div 8 =$	<p>Think multiply to divide</p> $\frac{1}{2} \times \frac{1}{8} =$
<p>Share how 8 is related to $\frac{1}{8}$</p>		

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

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Identify how many 1-fourths are in 3 wholes

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

Share how $\frac{1}{4}$ is related to 4

Think multiply to divide

$$3 \times 4 =$$

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

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Identify how many 1-thirds are in 5 wholes

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

Share how $\frac{1}{3}$ is related to 3

Think multiply to divide

$$5 \times 3 =$$

Learning Target: I will divide a whole number by a unit fraction 6th Grade - Readiness Standard 7 - 5.NF.7b - Form B

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

Each squares to represent 1 whole. **Divide** the 4 wholes into equal parts of 1-half

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Identify how many 1-halves are in 4 wholes

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

Share how $\frac{1}{2}$ is related to 2

Think multiply to divide

$$4 \times 2 =$$

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 3 wholes into equal parts of 1-sixth

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Identify how many 1-sixths are in 3 wholes

$$3 \div \frac{1}{6} =$$

Share how $\frac{1}{6}$ is related to 6

Think multiply to divide

$$3 \times 6 =$$



Name _____ Date _____

Learning Target: I will divide a whole number by a unit fraction 6th Grade - Readiness Standard 7 - 5.NF.7b - Form C

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

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

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Identify how many 1-fourths are in 5 wholes

$$5 \div \frac{1}{4} =$$

Share how $\frac{1}{4}$ is related to 4

Think multiply to divide

$$5 \times 4 =$$

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 4 wholes into equal parts of 1-third

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Identify how many 1-thirds are in 4 wholes

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

Share how $\frac{1}{3}$ is related to 3

Think multiply to divide

$$4 \times 3 =$$

Learning Target: I will multiply multi-digit numbers

6th Grade - Readiness Standard 2 - 5.NBT.5 - Form A

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

Label the partial lengths if the total length is 2864				Show your thinking using numbers and symbols									
<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> 2000 800 60 4 </div> <div style="display: flex; align-items: center;"> 7 <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">7×2000</td> <td style="padding: 5px;">7×800</td> <td style="padding: 5px;">7×60</td> <td style="padding: 5px;">7×4</td> </tr> <tr> <td style="padding: 5px;">14000</td> <td style="padding: 5px;">5600</td> <td style="padding: 5px;">420</td> <td style="padding: 5px;">28</td> </tr> </table> </div>	7×2000	7×800	7×60	7×4	14000	5600	420	28	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> $\begin{array}{r} 2864 \\ \times \quad 7 \\ \hline 14000 \\ 5600 \\ 420 \\ + \quad 28 \\ \hline 20048 \end{array}$ </div> <div style="width: 45%; text-align: right;"> $\begin{array}{r} 28 \\ 420 \\ 5600 \\ + 14000 \\ \hline 20048 \end{array}$ </div> </div>				
7×2000	7×800	7×60	7×4										
14000	5600	420	28										
Multiply to find each partial area													

2. Reflect: What questions do you have about multiplying multi-digit numbers?

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

Label the partial lengths if the total length is 28		Show your thinking using numbers and symbols												
<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> 20 8 </div> <div style="display: flex; align-items: center;"> 10 <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">10×20</td> <td style="padding: 5px;">10×8</td> </tr> <tr> <td style="padding: 5px;">200</td> <td style="padding: 5px;">80</td> </tr> </table> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> 7 <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">7×20</td> <td style="padding: 5px;">7×8</td> </tr> <tr> <td style="padding: 5px;">140</td> <td style="padding: 5px;">56</td> </tr> </table> </div>	10×20	10×8	200	80	7×20	7×8	140	56	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> $\begin{array}{r} 28 \\ \times 17 \\ \hline 200 \\ 80 \\ 140 \\ + 56 \\ \hline 476 \end{array}$ </div> <div style="width: 45%; text-align: right;"> $\begin{array}{r} 56 \\ 140 \\ 80 \\ + 200 \\ \hline 476 \end{array}$ </div> </div>					
10×20	10×8													
200	80													
7×20	7×8													
140	56													
Multiply to find each partial area														
Label the partial lengths if the total length is 286		Show your thinking using numbers and symbols												
<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> 200 80 6 </div> <div style="display: flex; align-items: center;"> 10 <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">10×200</td> <td style="padding: 5px;">10×80</td> <td style="padding: 5px;">10×6</td> </tr> <tr> <td style="padding: 5px;">2000</td> <td style="padding: 5px;">800</td> <td style="padding: 5px;">60</td> </tr> </table> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> 7 <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">7×200</td> <td style="padding: 5px;">7×80</td> <td style="padding: 5px;">7×6</td> </tr> <tr> <td style="padding: 5px;">1400</td> <td style="padding: 5px;">560</td> <td style="padding: 5px;">42</td> </tr> </table> </div>	10×200	10×80	10×6	2000	800	60	7×200	7×80	7×6	1400	560	42	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> $\begin{array}{r} 286 \\ \times 17 \\ \hline 2000 \\ 800 \\ 60 \\ 1400 \\ 560 \\ + 42 \\ \hline 4862 \end{array}$ </div> <div style="width: 45%; text-align: right;"> $\begin{array}{r} 42 \\ 560 \\ 1400 \\ 60 \\ 800 \\ + 2000 \\ \hline 4862 \end{array}$ </div> </div>	
10×200	10×80	10×6												
2000	800	60												
7×200	7×80	7×6												
1400	560	42												
Multiply to find each partial area														

Learning Target: I will divide 4-digit number

6th Grade - Readiness Standard 3 - 5.NBT.6 - Form A

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

List the multiples of 3

$3 \times 1 = \underline{3} \quad 3 \times 2 = \underline{6} \quad 3 \times 3 = \underline{9}$

$3 \times 4 = \underline{12} \quad 3 \times 5 = \underline{15} \quad 3 \times 6 = \underline{18}$

$3 \times 7 = \underline{21} \quad 3 \times 8 = \underline{24} \quad 3 \times 9 = \underline{27}$

Label the missing lengths

	2000	300	60	4
3	3(<u>2000</u>)	3(<u>300</u>)	3(<u>60</u>)	3(<u>4</u>)
	6000	900	180	12

Show your thinking using numbers and symbols

$$\begin{array}{r}
 \begin{array}{l} 4 \\ 60 \\ 300 \\ 2000 \end{array} \Bigg\} 2364 \\
 3 \overline{) 7092} \\
 \underline{- 6000} \\
 1092 \\
 \underline{- 900} \\
 192 \\
 \underline{- 180} \\
 12 \\
 \underline{- 12} \\
 0
 \end{array}$$

List the multiples of 7

$7 \times 1 = \underline{7} \quad 7 \times 2 = \underline{14} \quad 7 \times 3 = \underline{21}$

$7 \times 4 = \underline{28} \quad 7 \times 5 = \underline{35} \quad 7 \times 6 = \underline{42}$

$7 \times 7 = \underline{49} \quad 7 \times 8 = \underline{56} \quad 7 \times 9 = \underline{63}$

Label the missing lengths

	800	30	6
7	7(<u>800</u>)	7(<u>30</u>)	7(<u>6</u>)
	5600	210	42

Show your thinking using numbers and symbols

$$\begin{array}{r}
 \begin{array}{l} 6 \\ 30 \\ 800 \end{array} \Bigg\} 836 \\
 7 \overline{) 5852} \\
 \underline{- 5600} \\
 252 \\
 \underline{- 210} \\
 42 \\
 \underline{- 42} \\
 0
 \end{array}$$

2. Reflect: What questions do you have about dividing a 4-digit number?

Learning Target: I will divide 4-digit number

6th Grade - Readiness Standard 3 - 5.NBT.6 - Form A

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

List the multiples of 20

$$\begin{array}{lll} 20 \times 1 = \underline{20} & 20 \times 2 = \underline{40} & 20 \times 3 = \underline{60} \\ 20 \times 4 = \underline{80} & 20 \times 5 = \underline{100} & 20 \times 6 = \underline{120} \\ 20 \times 7 = \underline{140} & 20 \times 8 = \underline{160} & 20 \times 9 = \underline{180} \end{array}$$

Label the missing lengths

	300	20	7
20	20(<u>300</u>) 6000	20(<u>20</u>) 400	20(<u>7</u>) 140

Show your thinking using numbers and symbols

$$\begin{array}{r} \overline{) 6540} \\ \underline{6000} \\ 540 \\ \underline{400} \\ 140 \\ \underline{140} \\ 0 \end{array} \quad \left. \begin{array}{l} 7 \\ 20 \\ 300 \end{array} \right\} 327$$

List the multiples of 14

$$\begin{array}{lll} 14 \times 1 = \underline{14} & 14 \times 2 = \underline{28} & 14 \times 3 = \underline{42} \\ 14 \times 4 = \underline{56} & 14 \times 5 = \underline{70} & 14 \times 6 = \underline{84} \\ 14 \times 7 = \underline{98} & 14 \times 8 = \underline{112} & 14 \times 9 = \underline{126} \end{array}$$

Label the missing lengths

	500	80	9
14	14(<u>500</u>) 7000	14(<u>80</u>) 1120	14(<u>9</u>) 126

Show your thinking using numbers and symbols

$$\begin{array}{r} \overline{) 8246} \\ \underline{7000} \\ 1246 \\ \underline{1120} \\ 126 \\ \underline{126} \\ 0 \end{array} \quad \left. \begin{array}{l} 9 \\ 80 \\ 500 \end{array} \right\} 589$$

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> $ \begin{array}{r} 2\frac{8}{6} \\ 3\frac{1 \times 2}{3 \times 2} - 1\frac{5}{6} \\ \hline 2\frac{2}{6} - 1\frac{5}{6} \\ \hline 1\frac{3-5}{6} \\ \hline 1\frac{-2}{6} \end{array} $ <p>$\frac{3-1}{3 \cdot 2}$</p>	<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>
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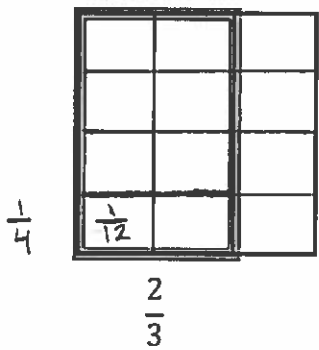
2. Reflect: What questions do you have about subtracting mixed numbers?

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

<p>Rewrite using common denominators</p> $ \begin{array}{r} 1\frac{12}{8} \\ 2\frac{1 \times 4}{2 \times 4} - 1\frac{7}{8} \\ \hline 2\frac{4}{8} - 1\frac{7}{8} \\ \hline 1\frac{4-7}{8} \\ \hline 1\frac{-3}{8} \end{array} $ <p>$\frac{5}{8}$</p>	<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> $ \begin{array}{r} 1\frac{8}{12} \\ 1\frac{2 \times 4}{3 \times 4} + 1\frac{3 \times 3}{4 \times 3} \\ \hline 1\frac{8}{12} + 1\frac{9}{12} \\ \hline 2\frac{17}{12} \end{array} $ <p>$2\frac{17}{12}$ or $1\frac{5}{12}$</p>	<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>

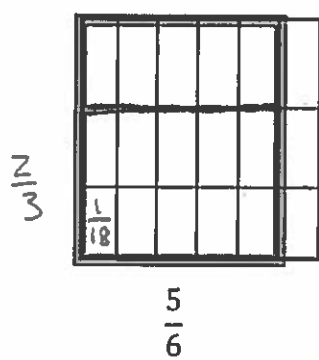
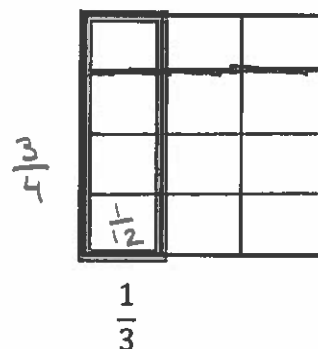
Learning Target: I will multiply a whole number by a fraction 6th Grade - Readiness Standard 5 - 5.NF.4b - Form A

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

<p>Draw 1-fourth of 2-thirds of the whole</p> 	<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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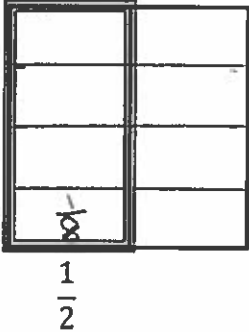
2. Reflect: What questions do you have about multiplying a whole number by a fraction?

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

<p>Draw 2-thirds of 5-sixths of the whole</p> 	<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> $\frac{2}{3} \times \frac{5}{6} = \frac{10}{18} = \frac{\cancel{2} \cdot 5}{\cancel{2} \cdot 9} = \frac{5}{9}$
<p>Draw 3-fourths of 1-third of the whole</p> 	<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> $\frac{3}{4} \times \frac{1}{3} = \frac{3}{12} = \frac{\cancel{3} \cdot 1}{\cancel{3} \cdot 4} = \frac{1}{4}$

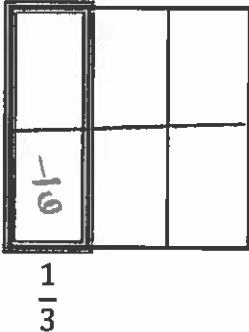
Learning Target: I will divide a unit fraction by a whole number 6th Grade - Readiness Standard 6 - 5.NF.7a - Form A

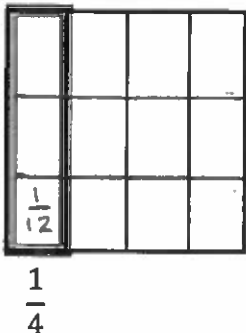
1. We Do Together: Divide, identify, think multiply to divide and share.

Divide 1-half of the whole into 4 equal parts 	Identify the size of each part $\frac{1}{2} \div 4 = \frac{1}{8}$	Think multiply to divide $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$
Share how 4 is related to $\frac{1}{4}$ $\frac{1}{4}$ is the reciprocal of 4 or $\frac{4}{1}$		

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.

Divide 1-third of the whole into 2 equal parts 	Identify the size of each part $\frac{1}{3} \div 2 = \frac{1}{6}$	Think multiply to divide $\frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$
Share how 2 is related to $\frac{1}{2}$ $\frac{1}{2}$ is the reciprocal of 2 or $\frac{2}{1}$		

Divide 1-fourth of the whole into 3 equal parts 	Identify the size of each part $\frac{1}{4} \div 3 = \frac{1}{12}$	Think multiply to divide $\frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$
Share how 3 is related to $\frac{1}{3}$ $\frac{1}{3}$ is the reciprocal of 3 or $\frac{3}{1}$		

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 4

4 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 3

3 is the reciprocal of $\frac{1}{3}$

Think multiply to divide

$$5 \times 3 = 15$$