



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="text-align: center; margin: 10px 0;"> <table style="margin: auto;"> <tr> <td style="padding: 5px;">100</td> <td style="padding: 5px;">80</td> <td style="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="text-align: center; margin: 10px 0;"> <table style="margin: auto;"> <tr><td>189</td><td></td></tr> <tr><td>$\times 7$</td><td></td></tr> <tr><td>$\hline 700$</td><td></td></tr> <tr><td>560</td><td>or 560</td></tr> <tr><td>$+ 63$</td><td>$+ 700$</td></tr> <tr><td>$\hline 1323$</td><td>$\hline 1323$</td></tr> </table> </div>	189		$\times 7$		$\hline 700$		560	or 560	$+ 63$	$+ 700$	$\hline 1323$	$\hline 1323$
100	80	9																				
7×100	7×80	7×9																				
700	560	63																				
189																						
$\times 7$																						
$\hline 700$																						
560	or 560																					
$+ 63$	$+ 700$																					
$\hline 1323$	$\hline 1323$																					
<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="text-align: center; margin: 10px 0;"> <table style="margin: auto;"> <tr> <td style="padding: 5px;">1000</td> <td style="padding: 5px;">800</td> <td style="padding: 5px;">90</td> <td style="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="text-align: center; margin: 10px 0;"> <table style="margin: auto;"> <tr><td>1896</td><td></td></tr> <tr><td>$\times 7$</td><td></td></tr> <tr><td>$\hline 7000$</td><td></td></tr> <tr><td>5600</td><td>or 630</td></tr> <tr><td>630</td><td>5600</td></tr> <tr><td>$+ 42$</td><td>$+ 7000$</td></tr> <tr><td>$\hline 13272$</td><td>$\hline 13272$</td></tr> </table> </div>	1896		$\times 7$		$\hline 7000$		5600	or 630	630	5600	$+ 42$	$+ 7000$	$\hline 13272$	$\hline 13272$
1000	800	90	6																								
7×1000	7×800	7×90	7×6																								
7000	5600	630	42																								
1896																											
$\times 7$																											
$\hline 7000$																											
5600	or 630																										
630	5600																										
$+ 42$	$+ 7000$																										
$\hline 13272$	$\hline 13272$																										
<p>Multiply to find each partial area</p>																											
<p>Label the partial lengths if the total length is 18</p> <div style="text-align: center; margin: 10px 0;"> <table style="margin: auto;"> <tr> <td style="padding: 5px;">10</td> <td style="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> <tr> <td style="padding: 5px;">7×10</td> <td style="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="text-align: center; margin: 10px 0;"> <table style="margin: auto;"> <tr><td>18</td><td></td></tr> <tr><td>$\times 17$</td><td></td></tr> <tr><td>$\hline 100$</td><td></td></tr> <tr><td>80</td><td>or 56</td></tr> <tr><td>70</td><td>70</td></tr> <tr><td>$+ 56$</td><td>80</td></tr> <tr><td>$\hline 306$</td><td>$+ 100$</td></tr> <tr><td></td><td>$\hline 306$</td></tr> </table> </div>	18		$\times 17$		$\hline 100$		80	or 56	70	70	$+ 56$	80	$\hline 306$	$+ 100$		$\hline 306$
10	8																										
10×10	10×8																										
100	80																										
7×10	7×8																										
70	56																										
18																											
$\times 17$																											
$\hline 100$																											
80	or 56																										
70	70																										
$+ 56$	80																										
$\hline 306$	$+ 100$																										
	$\hline 306$																										
<p>Multiply to find each partial area</p>																											



Name _____

Date _____

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> <table style="margin: 10px auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;"></td> <td style="text-align: center; padding: 5px;">2000</td> <td style="text-align: center; padding: 5px;">800</td> <td style="text-align: center; padding: 5px;">60</td> <td style="text-align: center; padding: 5px;">4</td> </tr> <tr> <td style="text-align: right; padding: 5px; vertical-align: middle;">7</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">7 × 2000 14000</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">7 × 800 5600</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">7 × 60 420</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">7 × 4 28</td> </tr> </table> <p>Multiply to find each partial area</p>		2000	800	60	4	7	7 × 2000 14000	7 × 800 5600	7 × 60 420	7 × 4 28	<p>Show your thinking using numbers and symbols</p> <table style="margin: 10px auto;"> <tr> <td style="padding: 5px;"> $\begin{array}{r} 2864 \\ \times \quad 7 \\ \hline 14000 \\ 5600 \\ 420 \\ + \quad 28 \\ \hline 20048 \end{array}$ </td> <td style="padding: 5px; vertical-align: middle;">or</td> <td style="padding: 5px;"> $\begin{array}{r} 28 \\ 420 \\ 5600 \\ + 14000 \\ \hline 20048 \end{array}$ </td> </tr> </table>	$\begin{array}{r} 2864 \\ \times \quad 7 \\ \hline 14000 \\ 5600 \\ 420 \\ + \quad 28 \\ \hline 20048 \end{array}$	or	$\begin{array}{r} 28 \\ 420 \\ 5600 \\ + 14000 \\ \hline 20048 \end{array}$
	2000	800	60	4										
7	7 × 2000 14000	7 × 800 5600	7 × 60 420	7 × 4 28										
$\begin{array}{r} 2864 \\ \times \quad 7 \\ \hline 14000 \\ 5600 \\ 420 \\ + \quad 28 \\ \hline 20048 \end{array}$	or	$\begin{array}{r} 28 \\ 420 \\ 5600 \\ + 14000 \\ \hline 20048 \end{array}$												

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> <table style="margin: 10px auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;"></td> <td style="text-align: center; padding: 5px;">20</td> <td style="text-align: center; padding: 5px;">8</td> </tr> <tr> <td style="text-align: right; padding: 5px; vertical-align: middle;">10</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">10 × 20 200</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">10 × 8 80</td> </tr> <tr> <td style="text-align: right; padding: 5px; vertical-align: middle;">7</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">7 × 20 140</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">7 × 8 56</td> </tr> </table> <p>Multiply to find each partial area</p>		20	8	10	10 × 20 200	10 × 8 80	7	7 × 20 140	7 × 8 56	<p>Show your thinking using numbers and symbols</p> <table style="margin: 10px auto;"> <tr> <td style="padding: 5px;"> $\begin{array}{r} 28 \\ \times 17 \\ \hline 200 \\ 80 \\ 140 \\ + 56 \\ \hline 476 \end{array}$ </td> <td style="padding: 5px; vertical-align: middle;">or</td> <td style="padding: 5px;"> $\begin{array}{r} 56 \\ 140 \\ 80 \\ + 200 \\ \hline 476 \end{array}$ </td> </tr> </table>	$\begin{array}{r} 28 \\ \times 17 \\ \hline 200 \\ 80 \\ 140 \\ + 56 \\ \hline 476 \end{array}$	or	$\begin{array}{r} 56 \\ 140 \\ 80 \\ + 200 \\ \hline 476 \end{array}$			
	20	8														
10	10 × 20 200	10 × 8 80														
7	7 × 20 140	7 × 8 56														
$\begin{array}{r} 28 \\ \times 17 \\ \hline 200 \\ 80 \\ 140 \\ + 56 \\ \hline 476 \end{array}$	or	$\begin{array}{r} 56 \\ 140 \\ 80 \\ + 200 \\ \hline 476 \end{array}$														
<p>Label the partial lengths if the total length is 286</p> <table style="margin: 10px auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;"></td> <td style="text-align: center; padding: 5px;">200</td> <td style="text-align: center; padding: 5px;">80</td> <td style="text-align: center; padding: 5px;">6</td> </tr> <tr> <td style="text-align: right; padding: 5px; vertical-align: middle;">10</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">10 × 200 2000</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">10 × 80 800</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">10 × 6 60</td> </tr> <tr> <td style="text-align: right; padding: 5px; vertical-align: middle;">7</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">7 × 200 1400</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">7 × 80 560</td> <td style="border: 1px solid black; padding: 5px; text-align: center;">7 × 6 42</td> </tr> </table> <p>Multiply to find each partial area</p>		200	80	6	10	10 × 200 2000	10 × 80 800	10 × 6 60	7	7 × 200 1400	7 × 80 560	7 × 6 42	<p>Show your thinking using numbers and symbols</p> <table style="margin: 10px auto;"> <tr> <td style="padding: 5px;"> $\begin{array}{r} 286 \\ \times 17 \\ \hline 2000 \\ 800 \\ 60 \\ 1400 \\ 560 \\ + 42 \\ \hline 4862 \end{array}$ </td> <td style="padding: 5px; vertical-align: middle;">or</td> <td style="padding: 5px;"> $\begin{array}{r} 42 \\ 560 \\ 1400 \\ 60 \\ 800 \\ + 2000 \\ \hline 4862 \end{array}$ </td> </tr> </table>	$\begin{array}{r} 286 \\ \times 17 \\ \hline 2000 \\ 800 \\ 60 \\ 1400 \\ 560 \\ + 42 \\ \hline 4862 \end{array}$	or	$\begin{array}{r} 42 \\ 560 \\ 1400 \\ 60 \\ 800 \\ + 2000 \\ \hline 4862 \end{array}$
	200	80	6													
10	10 × 200 2000	10 × 80 800	10 × 6 60													
7	7 × 200 1400	7 × 80 560	7 × 6 42													
$\begin{array}{r} 286 \\ \times 17 \\ \hline 2000 \\ 800 \\ 60 \\ 1400 \\ 560 \\ + 42 \\ \hline 4862 \end{array}$	or	$\begin{array}{r} 42 \\ 560 \\ 1400 \\ 60 \\ 800 \\ + 2000 \\ \hline 4862 \end{array}$														

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 \\ 20 \end{array} \Bigg] 26 $ $ \begin{array}{r} 3 \overline{)78} \\ - 60 \\ \hline 18 \\ - 18 \\ \hline 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: 20px;">3</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 100px; height: 100px; vertical-align: middle;"> $3(\underline{20})$ 60 </td> <td style="width: 100px; height: 100px; vertical-align: middle;"> $3(\underline{6})$ 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 \\ 60 \end{array} \Bigg] 67 $ $ \begin{array}{r} 9 \overline{)603} \\ - 540 \\ \hline 63 \\ - 63 \\ \hline 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: 20px;">9</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 100px; height: 100px; vertical-align: middle;"> $9(\underline{60})$ 540 </td> <td style="width: 100px; height: 100px; vertical-align: middle;"> $9(\underline{7})$ 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?



Name _____ Date _____

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> $7 \times 1 = \underline{7}$ $7 \times 2 = \underline{14}$ $7 \times 3 = \underline{21}$ $7 \times 4 = \underline{28}$ $7 \times 5 = \underline{35}$ $7 \times 6 = \underline{42}$ $7 \times 7 = \underline{49}$ $7 \times 8 = \underline{56}$ $7 \times 9 = \underline{63}$ </p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: right; margin-bottom: 10px;"> $\left. \begin{array}{r} 3 \\ 90 \\ 200 \\ 1000 \end{array} \right\} 1293$ </div> $ \begin{array}{r} 7 \overline{)9051} \\ \underline{-7000} \\ 2051 \\ \underline{-1400} \\ 651 \\ \underline{-630} \\ 21 \\ \underline{-21} \\ 0 \end{array} $												
<p>Label the missing lengths</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 5px;">1000</td> <td style="text-align: center; padding: 5px;">200</td> <td style="text-align: center; padding: 5px;">90</td> <td style="text-align: center; padding: 5px;">3</td> </tr> <tr> <td style="text-align: center; padding: 5px;">$7(\underline{1000})$</td> <td style="text-align: center; padding: 5px;">$7(\underline{200})$</td> <td style="text-align: center; padding: 5px;">$7(\underline{90})$</td> <td style="text-align: center; padding: 5px;">$7(\underline{3})$</td> </tr> <tr> <td style="text-align: center; padding: 5px;">7000</td> <td style="text-align: center; padding: 5px;">1400</td> <td style="text-align: center; padding: 5px;">630</td> <td style="text-align: center; padding: 5px;">21</td> </tr> </table>	1000	200	90	3	$7(\underline{1000})$	$7(\underline{200})$	$7(\underline{90})$	$7(\underline{3})$	7000	1400	630	21	
1000	200	90	3										
$7(\underline{1000})$	$7(\underline{200})$	$7(\underline{90})$	$7(\underline{3})$										
7000	1400	630	21										
<p>List the multiples of 8</p> <p> $8 \times 1 = \underline{8}$ $8 \times 2 = \underline{16}$ $8 \times 3 = \underline{24}$ $8 \times 4 = \underline{32}$ $8 \times 5 = \underline{40}$ $8 \times 6 = \underline{48}$ $8 \times 7 = \underline{56}$ $8 \times 8 = \underline{64}$ $8 \times 9 = \underline{72}$ </p>	<p>Show your thinking using numbers and symbols</p> <div style="text-align: right; margin-bottom: 10px;"> $\left. \begin{array}{r} 3 \\ 10 \\ 700 \end{array} \right\} 713$ </div> $ \begin{array}{r} 8 \overline{)5704} \\ \underline{-5600} \\ 104 \\ \underline{-80} \\ 24 \\ \underline{-24} \\ 0 \end{array} $												
<p>Label the missing lengths</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 5px;">700</td> <td style="text-align: center; padding: 5px;">10</td> <td style="text-align: center; padding: 5px;">3</td> </tr> <tr> <td style="text-align: center; padding: 5px;">$8(\underline{700})$</td> <td style="text-align: center; padding: 5px;">$8(\underline{10})$</td> <td style="text-align: center; padding: 5px;">$8(\underline{3})$</td> </tr> <tr> <td style="text-align: center; padding: 5px;">5600</td> <td style="text-align: center; padding: 5px;">80</td> <td style="text-align: center; padding: 5px;">24</td> </tr> </table>	700	10	3	$8(\underline{700})$	$8(\underline{10})$	$8(\underline{3})$	5600	80	24				
700	10	3											
$8(\underline{700})$	$8(\underline{10})$	$8(\underline{3})$											
5600	80	24											



Name _____

Date _____

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

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

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

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

Show your thinking using numbers and symbols

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

} 2364

Label the missing lengths

	2000	300	60	4
3	$3(\underline{2000})$ 6000	$3(\underline{300})$ 900	$3(\underline{60})$ 180	$3(\underline{4})$ 12

List the multiples of 7

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

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

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

Show your thinking using numbers and symbols

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

} 836

Label the missing lengths

	800	30	6
7	$7(\underline{800})$ 5600	$7(\underline{30})$ 210	$7(\underline{6})$ 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.

List the multiples of 20

$20 \times 1 = \underline{20}$ $20 \times 2 = \underline{40}$ $20 \times 3 = \underline{60}$

$20 \times 4 = \underline{80}$ $20 \times 5 = \underline{100}$ $20 \times 6 = \underline{120}$

$20 \times 7 = \underline{140}$ $20 \times 8 = \underline{160}$ $20 \times 9 = \underline{180}$

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

$14 \times 1 = \underline{14}$ $14 \times 2 = \underline{28}$ $14 \times 3 = \underline{42}$

$14 \times 4 = \underline{56}$ $14 \times 5 = \underline{70}$ $14 \times 6 = \underline{84}$

$14 \times 7 = \underline{98}$ $14 \times 8 = \underline{112}$ $14 \times 9 = \underline{126}$

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

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



Name _____

Date _____

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

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

< or >
Less Than Greater Than

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

<p>Draw 1-fourth of 2-thirds of the whole</p> <div style="text-align: center;"> </div>	<p>Identify the size of 1-fourth of the 2-thirds</p> <p>1-fourth of 2-thirds is $\frac{2}{12}$ of the whole</p> <hr/> <p>Multiply numerators and denominators, then simplify</p> $\frac{1}{4} \times \frac{2}{3} = \frac{2}{12} = \frac{\cancel{2} \cdot 1}{\cancel{2} \cdot 6} = \frac{1}{6}$
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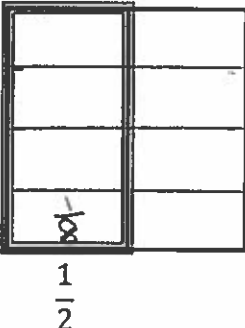
2. Reflect: What questions do you have about multiplying a whole number by a fraction?
3. You Do Together: Draw, identify and multiply.

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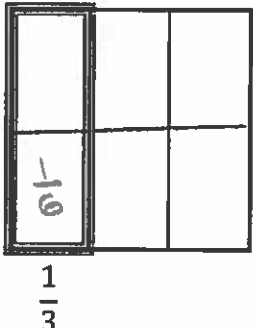
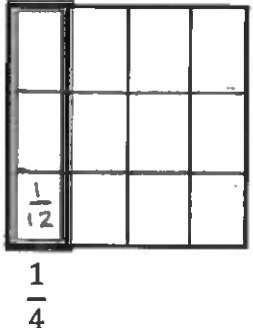
Learning Target: I will divide a unit fraction by a whole number 6th Grade - Readiness Standard 6 - 5.NF.7a - Form A

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

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

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

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

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



Name _____

Date _____

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

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

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

✓	✓	✓
✓	✓	✓
✓	✓	✓
$\frac{1}{4}$	✓	✓

Identify how many 1-fourths are in 3 wholes

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

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

Think multiply to divide

$$3 \times 4 = 12$$

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

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

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

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

Identify how many 1-thirds are in 5 wholes

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

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

Think multiply to divide

$$5 \times 3 = 15$$