

### WEEKLY LEARNING PLAN

Quarter	1	Grade Level		5																																										
Week	2	Learning Area		MATHEMATICS																																										
MELCs	uses divisibility rules for 4, 8, 12, and 11 to find common factors.																																													
	solves routine and non-routine problems involving factors, multiples, and divisibility rules for 2,3,4,5,6,8,9,10,11, and 12.																																													
Day	Objectives	Topic/s	Classroom-Based Activities	Home-Based Activities																																										
1	<ul style="list-style-type: none"><li>• use divisibility rules for 4, 8, 11, and 12 to find common factors; and</li><li>• appreciate the use of divisibility rules for 4, 8, 11 and 12 in finding common factors</li></ul>	Using Divisibility Rules for 4, 8, 11 and 12	<p>A. Review of the lesson</p> <p>Directions: Read the mathematical statements below and find out whether they are correct or not. Explain your answer briefly.</p> <p>1) If a number is divisible by 4, it must be divisible by 8.</p> <p>2) All numbers ending in zero are divisible by 8.</p> <p>3) If a number is divisible by 8, it must be divisible by 4.</p> <p>4) The sum of two consecutive odd numbers is always divisible by 11.</p> <p>5) If a number exactly divides the sum of two numbers, it must exactly divide the numbers separately.</p> <p>B. Establishing the purpose for the lesson</p> <p>In the previous modules, you have learned the divisibility rules for 2, 3, 5, 6, 9 and 10. Recall what you have learned by doing the exercise below.</p> <p>Directions: See if the numbers in the first column are divisible by 2, 3, 5, 6, 9 or 10.</p> <p>Mark (X) on the corresponding columns. Copy the table with your answers on a separate sheet of paper.</p> <table><tr><td>Divisible by</td><td>2</td><td>3</td><td>5</td><td>6</td><td>9</td><td>10</td></tr><tr><td>120</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>125</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>180</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>324</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>660</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Divisible by	2	3	5	6	9	10	120							125							180							324							660							<p>Answer the Learning Tasks found in MATH 5 SLM.</p> <p>Write you answers on your Notebook/Activity Sheets.</p> <p>Learning Task No. 1:</p> <p>(This task can be found on page ____)</p>
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2	<ul style="list-style-type: none"><li>• use divisibility rules for 4, 8, 11, and 12 to find common factors; and</li><li>• appreciate the use of divisibility rules for 4, 8, 11 and 12 in finding common factors</li></ul>	Using Divisibility Rules for 4, 8, 11 and 12	<p>WHAT’S NEW</p> <p>Study the table below. Find out why the given numbers are divisible by 4, 8, 11 or 9.</p> <p>Directions: Put a check mark in the corresponding column to identify whether each number in the first column is divisible by 4, 8, 11, or 12. Copy the table with your answers on a separate sheet of paper.</p>	<p>Learning Task No. 2:</p> <p>(This task can be found on page ____)</p>																																										

			<table><tr><td></td><td>4</td><td>8</td><td>12</td><td>11</td></tr><tr><td>1) 88</td><td></td><td></td><td></td><td></td></tr><tr><td>2) 48</td><td></td><td></td><td></td><td></td></tr><tr><td>3) 22</td><td></td><td></td><td></td><td></td></tr><tr><td>4) 132</td><td></td><td></td><td></td><td></td></tr><tr><td>5) 264</td><td></td><td></td><td></td><td></td></tr></table> <p>WHAT IS IT</p> <p>Divisibility Rules for 4, 8, 11, and 12</p> <p>Here are examples of numbers that are divisible by 4, 8, 11 and 12.</p> <table><tr><th colspan="4">Numbers Divisible by</th></tr><tr><th>4</th><th>8</th><th>11</th><th>12</th></tr><tr><td>28</td><td>32</td><td>33</td><td>48</td></tr><tr><td>812</td><td>96</td><td>242</td><td>180</td></tr><tr><td>124</td><td>176</td><td>495</td><td>240</td></tr><tr><td>2020</td><td>200</td><td>253</td><td>732</td></tr></table> <p>How do we know if a number is divisible by 4, 8, 11 or 12?</p> <ul style="list-style-type: none"><li>• Divisibility Rules for 4</li></ul> <p>A number is divisible by 4 if the number formed by its last two digits is divisible by 4. If its last two digits are both zeros, then it is also divisible by 4.</p> <ul style="list-style-type: none"><li>• Divisibility Rules for 8</li></ul> <p>A number is divisible by 8 if the number formed by its last three digits is divisible by 8. If the number ends in three zeros, then it is also divisible by 8.</p> <ul style="list-style-type: none"><li>• Divisibility Rules for 11</li></ul> <p>A number is divisible by 11 if the difference of the sum of the odd-positioned digits (starting from the left) and the sum of the even-positioned digits (starting from the left) is zero or if it is a multiple of eleven.</p> <ul style="list-style-type: none"><li>• Divisibility Rules for 12</li></ul> <p>A number is divisible by 12 if the sum of its digits is divisible by 3, and the number formed by its last two digits is divisible by 4.</p>		4	8	12	11	1) 88					2) 48					3) 22					4) 132					5) 264					Numbers Divisible by				4	8	11	12	28	32	33	48	812	96	242	180	124	176	495	240	2020	200	253	732	
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			<p>column is a common factor to the numbers on the right column. If not, write False.</p> <p>_____ 1.) 4 192 and 670</p> <p>_____ 2.) 8 432 and 864</p> <p>_____ 3.) 11 462 and 330</p> <p>_____ 4.) 12 240 and 500</p> <p>_____ 5.) 12 480 and 960</p>	
4	<ul style="list-style-type: none"> <li>• use divisibility rules for 4, 8, 11, and 12 to find common factors; and</li> <li>• appreciate the use of divisibility rules for 4, 8, 11 and 12 in finding common factors</li> </ul>	Using Divisibility Rules for 4, 8, 11 and 12	<p>WHAT I CAN DO</p> <p>Directions: Use divisibility rules to help you solve the problem inside the box.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>How many whole numbers from 20 to 40 are divisible by 4? 8? 11? 12?</p> </div> <p>Write your answers in your Math Activity Notebook.</p>	<p>Learning Task No. 4:</p> <p>(This task can be found on page ____)</p>
5	<ul style="list-style-type: none"> <li>• use divisibility rules for 4, 8, 11, and 12 to find common factors; and</li> <li>• appreciate the use of divisibility rules for 4, 8, 11 and 12 in finding common factors</li> </ul>	Using Divisibility Rules for 4, 8, 11 and 12	<p>ASSESSMENT</p> <p>Directions: Choose the letter of the correct answer. Write your answer on a separate sheet of paper.</p> <p>1) 432 is divisible by 4 because_____.</p> <p>A. The last two digits is divisible by 4</p> <p>B. The last digit is even</p> <p>C. The sum of the digits is 9</p> <p>D. The hundred's digit is 4.</p> <p>2) Which of the following is NOT divisible by 4?</p> <p>A. 1 000 B. 1 566 C. 5 740 D. 2 024</p> <p>3) Which of the following numbers are divisible by 11?</p> <p>A. 418 653 B. 639 284 C. 927 421 D. All of the above</p> <p>4) Which of the following numbers are divisible by 12?</p> <p>A. 39 628 B. 54 936 C. 76 924 D. All of the above</p> <p>5) By what numbers is 3 440 divisible?</p> <p>A. 4 and 8 B. 8 and 12 C. 11 and 12 D. 4 and 11</p> <p>6) 401 000 is divisible by 8 because_____</p> <p>A. The number has 4 zeros</p> <p>B. The last 3 digits are zeros</p> <p>C. It is even number</p> <p>D. It is a multiple of 5</p> <p>7) Which of the following is divisible by 8?</p> <p>A. 7135 B. 7136 C. 7200 D. 7236</p> <p>8) By what number is 40 634 divisible?</p>	<p>Answer the Evaluation that can be found on page ____.</p>

			<p>A. 4 B. 8 C. 11 D. 12</p> <p>9) Which is NOT divisible by 8?</p> <p>A. 9 634 B. 8 168 C. 5408 D. 3 440</p> <p>10) By what numbers is 3 936 divisible?</p> <p>A. 8 and 11 B. 4 and 12 C. 12 and 11 D. 11 and 4</p>	
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