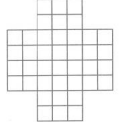

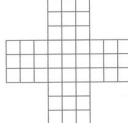

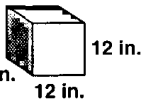
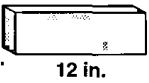


## Benchmark Tasks Grid – Elementary

<p>Look at the two addition strategies below. See if you can figure out how they work.</p> <p>Louisa's Strategy      Li's strategy</p> <p><math>37 + 44 = ?</math>            <math>37 + 44 = ?</math></p> <p><math>37 + 40 = 77</math>            <math>40 + 44 = 84</math></p> <p><math>77 + 4 = 81</math>              <math>84 - 3 = 81</math></p> <p><math>37 + 44 = 81</math>            <math>37 + 44 = 81</math></p> <p>Now try to use either Louisa's Strategy or Li's Strategy to solve these problems:</p> <p><math>29 + 56 = ?</math>              <math>65 + 27 = ?</math></p> <p>Which strategy do you think is easier? Explain.</p>	<p>Solve the following problems using any material that will help you find the answer.</p> <p>Find the dimensions of a box that will hold twice as many cubes as a box that is 2 by 6 by 4.</p> <ol style="list-style-type: none"> <li>Volume of original box: _____</li> <li>Volume of new box: _____</li> <li>Dimensions of new box: _____</li> </ol> <p>Explain how you found the dimensions of the new box.</p>	<p>Find as many different ways as you can to make this equation true.</p> <p><math>40 \times 32 = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}</math></p> <p>How are the new numbers in your new expressions related to <math>40 \times 32</math>?</p>																								
<p>Meredith uses an interesting strategy for solving subtraction problems when you have to trade. Try to figure out how it works.</p> <p><math>42 - 27</math>                      <math>34 - 19</math></p> <p>On my first step, I get 12.    On my first step, I get 14.</p> <p>On my 2<sup>nd</sup> step I get 15.    On my 2<sup>nd</sup> step I get 15.</p> <p>15 is my final answer.      15 is my final answer.</p> <p><math>71 - 36</math></p> <p>First step: _____</p> <p>Second step: _____</p> <p>Final answer: _____</p>	<p>How many cubes fit in each box? First, determine the number of cubes without building the box. Then build a box and use cubes to check. Check your first answer with your actual answer before going on to the next box.</p> <p>Pattern                      Box                      FIRST Answer    Actual</p> <p>1. Box 1</p>   <p>2. Box 2</p>  	<p>Write multiplication equations, solve the problems, and show your solutions.</p> <ul style="list-style-type: none"> <li>There are 4 people sitting at my table. Each person has 5 fingers on each hand. How many fingers are there altogether?</li> <li>There are 12 people in my group. Each person has 2 eyes. How many eyes are there altogether?</li> <li>Write a story problem that represents <math>4 \times 3</math>.</li> </ul>																								
<p>Solve each problem. Show your work. Write an equation.</p> <p>1. Franco and Sally have 18 cherries and 13 grapes. How many pieces of fruit do they have?</p>	<p>Find the volume of each figure.</p> <p>1.  12 in.                      2.  4 in.</p>	<p>Find each product.</p> <p>12. <math>\begin{array}{r} 17 \\ \times 6 \\ \hline \end{array}</math>      13. <math>\begin{array}{r} 28 \\ \times 6 \\ \hline \end{array}</math>      14. <math>\begin{array}{r} 39 \\ \times 3 \\ \hline \end{array}</math>      15. <math>\begin{array}{r} 16 \\ \times 8 \\ \hline \end{array}</math></p>																								
<p>Which number combination does not make 20?</p> <ol style="list-style-type: none"> <li><math>10 + 10</math></li> <li><math>18 + 2</math></li> <li><math>19 + 3</math></li> <li><math>5 + 5 + 5 + 5</math></li> </ol>	<p>Choose the best word to complete each sentence.</p> <ol style="list-style-type: none"> <li>The number of cubic units in a solid figure is the _____.</li> <li>The point where 3 edges of a solid figure meet is a _____.</li> <li>The number of square units in a region is the _____.</li> </ol> <div data-bbox="1144 1177 1323 1339" style="border: 1px solid black; padding: 5px; width: fit-content;"> <p><b>Vocabulary</b></p> <p>area</p> <p>vertex</p> <p>volume</p> <p>perimeter</p> </div>	<p>Multiply each number in the first column of the table with the number at the top. Circle any combinations you do not know immediately.</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Table A</th> <th>Table B</th> <th>Table C</th> <th>Table D</th> </tr> </thead> <tbody> <tr> <td><math>\times 7</math></td> <td><math>\times 8</math></td> <td><math>\times 6</math></td> <td><math>\times 9</math></td> </tr> <tr> <td>2    14</td> <td>2    </td> <td>10    </td> <td>5    </td> </tr> <tr> <td>6    </td> <td>9    </td> <td>4    </td> <td>2    </td> </tr> <tr> <td>8    </td> <td>4    </td> <td>2    </td> <td>12    </td> </tr> <tr> <td>3    </td> <td>11    </td> <td>8    </td> <td>4    </td> </tr> </tbody> </table>	Table A	Table B	Table C	Table D	$\times 7$	$\times 8$	$\times 6$	$\times 9$	2    14	2	10	5	6	9	4	2	8	4	2	12	3	11	8	4
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