

Name \_\_\_\_\_

Date \_\_\_\_\_

Use the formula: **Area = length x width (A = l x w)** to find areas as needed.

<p>1. A table top</p> <p><b>Answers</b></p> <p>Celine calculated the area for the lunch table to 48 ft<sup>2</sup>. One side of her desk measured 6 feet long and she forgot the width. What was the length and how do you know?</p>	<p>2. A container top</p> <p>Trevor's container top measured 18 cm by 24 cm and his calculated area was 243 cm<sup>2</sup>. Milo knew right away the answer was incorrect, due to a simple multiplication rule. What did Milo know?</p>
<p><b>ANSWERS MAY VARY, but may include,</b></p>	<p><b>ANSWERS MAY VARY, but may include, one</b></p>
<p><b>6 x 8 = 48; 48</b></p>	<p><b>might notice 10 x 24 is 240 and 18 is much</b></p>
	<p><b>bigger than 10; also multiplying two even numbers yields an even product.</b></p>
<p>3. A memory card</p> <p>Jackson calculated a memory card's area to be 15 cm<sup>2</sup>. Ms. Halcyon, the math teacher, reminded him that the card's length and width both had even lengths, but his answer was close: within 4 cm<sup>2</sup>. Describe potential dimensions for the memory card and explain your reasoning.</p> <p><b>ANSWERS MAY VARY, but could include</b></p>	<p>4. A floor</p> <p>Two rugs covered a floor with an area of 24 in. by 48 in. If both rugs had the same length and width, what are their dimensions?</p> <p><b>ANSWERS MAY VARY, but may include: any two lengths/widths equal to 24 in. (multiplied by) any two lengths/widths that add up to 48 in. -or- any two lengths/widths equal to 48 in., (multiplied by) any two lengths/widths that add up to 24 in. Example, two rugs with areas: 24 in. x 10 in. and 24 in. x 38 in. , 24 in. are the same for each, and 38 in. + 10 in. = 48 in.</b></p>
<p><b>2 cm x 6 cm =12 cm<sup>2</sup>,</b></p>	
<p><b>4 cm x 4 cm =16cm<sup>2</sup></b></p>	
<p>5. What Do You Think?</p> <p>What would change if you used a different shape other than a square to calculate area for a rectangular figure?</p>	
<p><b>ANSWERS MAY VARY, but may include any duplicate unit of the same shape and size that completely covers the area of a rectangular figure (i.e. tessellations, smaller rectangles or triangles that fit perfectly in a shape, etc.)</b></p>	
<p><b>that fit perfectly in a shape, etc.)</b></p>	