

## Using literal equations

**Warm-up:** The warm-up is a short review of the area and perimeter of a rectangle and the concepts explored during this lesson.

Quadrant I: This problem has students write the perimeter of the rectangle with respect to length and width. Include units.

Quadrant II: This problem reviews concretely the perimeter of a rectangle with units.

Quadrant III: This problem has students write the area of the rectangle with respect to length and width. Include units.

Quadrant IV: This problem reviews concretely the area of a rectangle. Introduce the idea of two dimensions and

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<p>CA 5.0/7G.1</p>	<p>CA 5.0/7G.1</p>
<p>Find the <i>perimeter</i> of a rectangle if the length is 4 centimeters and width is 7 centimeters. What are the units?</p>	<p>The <i>perimeter</i> of a rectangle is the distance around a rectangle. Find the <i>perimeter</i> for the figures below:</p> <div data-bbox="787 856 1360 1056" style="text-align: center;"> </div>
<p>CA 5.0/7G.1</p>	<p>CA 5.0/7G.1</p>
<p>The <i>area</i> of a rectangle is the number of square units inside the rectangle. For the figure in Q1, the <i>area</i> is?</p>	<p>Find the area of the rectangle described in Q2. What are the units?</p>



An equation or formula with different variables is called a literal equation. Today we will be working with several literal equations that are frequently used in science and mathematics.

3. Plot the points A (1, -1), B (-2,3), and C (-2, -1) on the centimeter graph. Then, draw the triangle formed by the points. Find the lengths of the following line segments:

— =  
— =  
— =

Another way to identify sides of a triangle is:

— =      a =  
— =      b =  
— =      c =

3b.

4. The area of



7. Y



10. In Seattle you get a job washing cars. You wash 3 cars per hour (