Name:

<ul> <li>5-a-day ACT prep #7</li> <li>Solve each problem, show your work, and then choose the correct answer.</li> <li>Do not linger over problems that take too much time. Solve as many as you can; then return to the others in the time you have left for this test.</li> <li>You are permitted to use a calculator on this test.</li> <li>You may use your calculator for any problems you choose, but some of the problems may best be done without using a calculator.</li> <li>Note: Unless otherwise stated, all of the following should be assumed.</li> <li>1. Illustrative figures are NOT necessarily drawn to scale.</li> <li>2. Geometric figures lie in a plane.</li> <li>3. The word <i>line</i> indicates a straight line.</li> <li>4. The word <i>average</i> indicates arithmetic mean.</li> </ul>	1. What is the area of the parallelogram shown below? h = 4 $R = 4$
2. What is the slope of a line perpendicular to the line given by the equation $5x + y - 2 = 0$ ? A. $-5$ B. $-\frac{2}{5}$ C. $-\frac{1}{5}$ D. $\frac{1}{5}$ E. 5	<ul> <li>3. Luna's scores on her first 4 tests were 84, 79, 95, and 93. She takes a 5th test and the average of all 5 scores is 90. What was her score on the 5th test?</li> <li>A. 96</li> <li>B. 97</li> <li>C. 98</li> <li>D. 99</li> <li>E. Cannot be determined.</li> </ul>
4. What is the value of x in the equation 5x + 1 = -5(1 - x)? A1 B. $\frac{2}{5}$ C. $\frac{3}{5}$ D. $\frac{5}{3}$ E. No solution.	<ul> <li>5. What is the distance between the points (- 3, 7) and (5, 1) rounded to the nearest integer?</li> <li>A. 8</li> <li>B. 9</li> <li>C. 10</li> <li>D. 12</li> <li>E. 14</li> </ul>