

Name:

<p>5-a-day ACT prep #1</p> <p>Solve each problem, show your work, and then choose the correct answer.</p> <p>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.</p> <p>You are permitted to use a calculator on this test. You may use your calculator for any problems you choose, but some of the problems may best be done without using a calculator.</p> <p>Note: Unless otherwise stated, all of the following should be assumed.</p> <ol style="list-style-type: none"><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></ol>	<p>1. On Friday, Grant Walked <math>2\frac{1}{3}</math> laps during morning recess and <math>1\frac{1}{2}</math> laps during afternoon recess. What is the total number of laps Grant walked in recess on Friday?</p> <p>A. <math>3\frac{1}{6}</math></p> <p>B. <math>3\frac{2}{5}</math></p> <p>C. <math>3\frac{3}{5}</math></p> <p>D. <math>3\frac{5}{12}</math></p> <p>E. <math>3\frac{5}{6}</math></p>
<p>2. What is the value of the digit 7 in the number 1.527?</p> <p>A. <math>\frac{7}{1000}</math></p> <p>B. <math>\frac{7}{100}</math></p> <p>C. 7</p> <p>D. 700</p> <p>E. 7,000</p>	<p>3. What is the value of <math>\sqrt{75} + 2 + \sqrt{27} - 1</math>?</p> <p>A. 7</p> <p>B. <math>8\sqrt{3} + 1</math></p> <p>C. <math>\sqrt{102} + 1</math></p> <p>D. 49</p> <p>E. <math>\sqrt{107}</math></p>
<p>4. What is the value of <math>x</math> in the equation <math>7x - 5 = 4(x + 1)</math>?</p> <p>A. - 3</p> <p>B. - 2</p> <p>C. 0</p> <p>D. 2</p> <p>E. 3</p>	<p>5. What is the slope of the line described by the function <math>7x - 2y = 10</math>?</p> <p>A. <math>-\frac{7}{2}</math></p> <p>B. - 2</p> <p>C. <math>-\frac{2}{7}</math></p> <p>D. <math>\frac{7}{2}</math></p> <p>E. 7</p>

