5-a-day ACT prep #1

Solve each problem, show your work, and then choose the correct answer.

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.

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.

Note: Unless otherwise stated, all of the following should be assumed.

- 1. Illustrative figures are NOT necessarily drawn to scale.
- 2. Geometric figures lie in a plane.
- 3. The word line indicates a straight line.
- 4. The word average indicates arithmetic mean.

- 1. On Friday, Grant Walked $2\frac{1}{3}$ laps during morning recess and $1\frac{1}{2}$ laps during afternoon recess. What is the total number of laps Grant walked in recess on Friday?

- A. $3\frac{1}{6}$ B. $3\frac{2}{5}$ C. $3\frac{3}{5}$ D. $3\frac{5}{12}$ E. $3\frac{5}{6}$

- 2. What is the value of the digit 7 in the number 1.527?
 - - D. 700
 - E. 7,000

- 3. What is the value of $\sqrt{75}$ + 2 + $\sqrt{27}$ 1?
 - A. 7.
 B. $8\sqrt{3} + 1$
 - C. $\sqrt{102} + 1$
 - D. 49
 - E. $\sqrt{107}$
- 4. What is the value of x in the equation 7x - 5 = 4(x + 1)?
 - A. -3 7x-5=4x+4
 - B. -2 C. 0 3X = 1

 - D. 2

- 5. What is the slope of the line described by the function 7x - 2y = 10?