Name:

5-a-day ACT prep #3

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

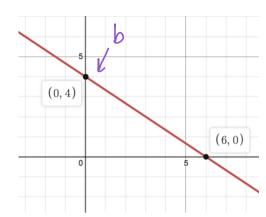
Do not linger over problems that take too much time. Solve as many as you can; then return to the others in the time you have left for this test.

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. What is the equation of the line shown?



A.
$$y = 4x + 6$$

B.
$$y = 6x + 4$$

$$(C.) y = -\frac{2}{3}x + 4$$

D.
$$y = -\frac{2}{3}x + 6$$

E.
$$y = \frac{2}{3}x + 6$$

2. Craig packed 3 pairs of shorts, 4 shirts, and 2 pairs of shoes for his summer vacation. How many different outfits can he make with one pair of shorts, one shirt, and 1 pair of shoes?



2x+6=3x-6

 $\chi = 1$

3. Evaluate the expression

$$|x-7|$$
 when $x=3$.

4. What is the value of x in the equation 2x + 5 = 3(x - 2)?

C.
$$\frac{11}{5}$$

D.
$$-\frac{11}{5}$$

5. If 12 donuts cost \$15.00, what is the cost of one donut?

13-7/=14