Name:

## 5-a-day ACT prep \#4

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.
5. What is the equation of the line shown?

A. $2 x+3 y=12$
B. $4 x+6 y=-24$
C. $6 x-4 y=12$
D. $2 x-3 y=-12$
E. $4 x-6 y=24$
6. $\left(3 x^{2}+5 x-1\right)-\left(x^{2}-2 x-3\right)$ is equivalent to:
A. $2 x^{2}+3 x-4$
B. $2 x^{2}+3 x-2$
C. $2 x^{2}+7 x+2$
D. $4 x^{2}+3 x-4$
E. $4 x^{2}+7 x+2$
7. Evaluate the expression
$x^{2}-2 x$ when $x=-3$.
A. -15
B. -3
C. 3
D. 6
E. 15
8. What is the value of $x$ in the equation $4 \frac{2}{3}=x+3 \frac{4}{5}$ ?
A. $\frac{3}{4}$
B. $\frac{13}{15}$
C. $1 \frac{4}{15}$
D. $1 \frac{1}{2}$
E. $1 \frac{3}{4}$
A. 3
B. 6
C. 9
D. 12
E. 18
9. On the number line, what is the midpoint of -3 and 15 ?
