

# Chapter Standardized Test

**TEST-TAKING STRATEGY** Avoid spending too much time on one question. Skip questions that are too difficult for you, and spend no more than a few minutes on each question.

1. **MULTIPLE CHOICE** What is an equation of the line that passes through the points  $(-4, 2)$  and  $(6, 6)$ ?

(A)  $y = \frac{2}{5}x + \frac{18}{5}$       (B)  $y = \frac{2}{5}x - \frac{12}{5}$   
 (C)  $y = 2x - 6$       (D)  $y = \frac{2}{5}x - \frac{18}{5}$   
 (E)  $y = 2x + 18$

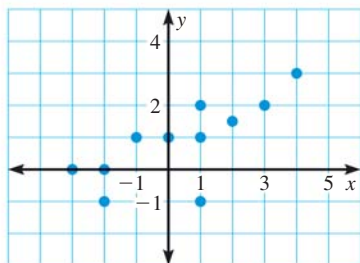
2. **MULTIPLE CHOICE** An equation of the line perpendicular to the line  $y = -2x - 3$  with a  $y$ -intercept of  $-\frac{3}{4}$  is  $\underline{\quad}$ .

(A)  $y = -2x + \frac{3}{4}$       (B)  $y = -2x - \frac{3}{4}$   
 (C)  $y = 2x - \frac{3}{4}$       (D)  $y = \frac{1}{2}x - \frac{3}{4}$   
 (E)  $y = -\frac{1}{2}x + \frac{3}{4}$

3. **MULTIPLE CHOICE** A line with a slope of  $-1$  passes through the point  $(2, -1)$ . If  $(-4, p)$  is another point on the line, what is the value of  $p$ ?

(A)  $-5$       (B)  $-1$       (C)  $1$   
 (D)  $2$       (E)  $5$

4. **MULTIPLE CHOICE** What is an equation of a line that best fits the scatter plot?



(A)  $y = \frac{1}{2}x + 1$       (B)  $y = 1$   
 (C)  $y = -\frac{1}{2}x + 1$       (D)  $y = x + 1$   
 (E)  $y = x - 1$

5. **MULTIPLE CHOICE** A bike rental shop charges \$8 to rent a bike, plus \$1.50 for every half hour you ride. If the shop charges you and your friend a total of \$25, how many hours did you each ride? (Assume that you each rode a separate bike for an equal amount of time.)

(A) 1      (B) 1.5  
 (C) 2      (D) 2.5  
 (E) 3

6. **MULTIPLE CHOICE** What is an equation of the line that passes through the point  $(4, -5)$  and has a slope of  $\frac{1}{2}$ ?

(A)  $y = x - 5$       (B)  $y = -\frac{1}{2}x + 7$   
 (C)  $y = \frac{1}{2}x + 7$       (D)  $y = -\frac{1}{2}x - 7$   
 (E)  $y = \frac{1}{2}x - 7$

7. **MULTIPLE CHOICE** An equation of the line whose  $x$ -intercept is 3 and whose  $y$ -intercept is 5 is  $\underline{\quad}$ .

(A)  $y = \frac{5}{3}x + 5$       (B)  $y = -\frac{3}{5}x + 5$   
 (C)  $y = -\frac{5}{3}x + 5$       (D)  $y = \frac{3}{5}x + 5$   
 (E)  $y = -\frac{5}{3}x - 5$

8. **MULTIPLE CHOICE** Which two points lie on the line  $y = -2x + 7$ ?

(A)  $(0, 7), (1, -5)$       (B)  $(4, 0), (-2, -8)$   
 (C)  $(-3, -4), (2, 6)$       (D)  $(-1, 9), (3, 1)$   
 (E)  $(2, -1), (-3, -11)$

9. **MULTIPLE CHOICE** Which equation is in standard form with integer coefficients?

(A)  $x - \frac{1}{2}y = \frac{5}{2}$       (B)  $y = 2x + -5$   
 (C)  $y = -5 + 2x$       (D)  $x = \frac{1}{2}y + \frac{5}{2}$   
 (E)  $-2x + y = -5$