

Chapter 8 Test, Form 1

SCORE _____

Write the letter for the correct answer in the blank at the right of each question.

1. Find $(2a - 5) - (3a + 1)$.
 A $5a + 6$ B $a - 4$ C $-a - 6$ D $-a - 4$ 1. **C**

2. Find $3m^2(2m^2 - m)$.
 F $5m^4 - 3m^3$ G $6m^4 - 3m^2$ H $5m^4 - 3m$ J $6m^4 - 3m^3$ 2. **J**

3. Simplify $3(x^2 + 2x) - x(x - 1)$.
 A $4x^2 + x$ B $2x^2 + 7x$ C $2x^2 + 3x$ D $2x^2 + 5x$ 3. **B**

4. Find $(2n - 3)(n + 4)$.
 F $3n + 1$ H $2n^2 - 12$ J $2n^2 + 11n + 1$ G $2n^2 + 5n - 12$ 4. **G**

5. Factor $xy + 3x - 2x^2$ completely.
 A $x(y + 3 - 2x)$ C $x(y + 3) + 2x$ D $y(x + 3x - 2x^2)$ B $(2x - 3y)(y + x)$ 5. **A**

6. Solve $b(b + 17) = 0$.
 F $\{0, \frac{1}{17}\}$ G $\{-17, 0\}$ H $\{0, 17\}$ J $\{17\}$ 6. **G**

7. Factor $m^2 + 13m + 42$.
 A $(m + 1)(m + 13)$ C $(m + 10)(m + 3)$ D $(m - 6)(m - 7)$ B $(m + 6)(m + 7)$ 7. **B**

8. Find $(3y - 1)^2$.
 F $6y^2 - 6y + 1$ H $9y^2 - 3y + 1$ J $9y^2 - 6y - 1$ G $9y^2 - 6y + 1$ 8. **G**

9. The area of a rectangle is $(y^2 - 8y + 15)$ square inches. Which expression represents a possible length for the rectangle?
 A $(y + 5)$ C $(y - 15)$ D $(y - 3)$ B $(y - 2)$ 9. **D**

10. Solve $3(2n - 6) = -4(n - 3)$.
 F 3 H 6 J $1\frac{4}{5}$ G $\frac{3}{5}$ 10. **F**

11. Solve $2x^2 - 5x - 3 = 0$.
 A $\{-\frac{1}{2}, 3\}$ B $\{\frac{1}{2}, -3\}$ C $\{\frac{1}{2}, 3\}$ D $\{-\frac{1}{2}, -3\}$ 11. **A**

