

*Do all work on separate paper, numbered.***4-4****Standardized Test Prep**

## Factoring Quadratic Expressions

**Multiple Choice**Factoring

For Exercises 1–6, choose the correct letter.

1. What is the complete factorization of  $2x^2 + x - 15$ ?

(A)  $(x - 5)(2x + 3)$

(C)  $(x - 3)(2x + 5)$

(B)  $(x + 3)(2x - 5)$

(D)  $(x + 5)(2x - 3)$

2. What is the complete factorization of  $-x^2 + 3x + 28$ ?

(F)  $(x - 4)(x - 7)$

(H)  $-(x + 4)(x + 7)$

(G)  $-(x - 4)(x + 7)$

(I)  $-(x - 7)(x + 4)$

3. What is the complete factorization of  $6x^2 + 9x - 6$ ?

(A)  $3(2x - 1)(x + 2)$

(C)  $3(x - 2)(2x + 1)$

(B)  $(3x + 2)(2x - 3)$

(D)  $3(x - 2)(2x - 1)$

4. What is the complete factorization of  $16x^2 - 56x + 49$ ?

(F)  $(4x - 7)(4x + 7)$

(H)  $(4x + 7)^2$

(G)  $(4x - 7)^2$

(I)  $16(x - 7)^2$

5. What is the complete factorization of  $5x^2 - 20$ ?

(A)  $(5x - 4)(x + 5)$

(C)  $5(x + 2)(x - 2)$

(B)  $5(x + 4)(x - 4)$

(D)  $5(x - 2)^2$

6. What is the complete factorization of  $x^2 - 14x + 24$ ?

(F)  $(x - 8)(x - 3)$

(H)  $(x + 2)(x - 12)$

(G)  $(x - 4)(x - 6)$

(I)  $(x - 12)(x - 2)$

**Short Response**

7. The area in square meters of a rectangular parking lot is  $x^2 - 95x + 2100$ . The width in meters is  $x - 60$ . What is the length of the parking lot in meters? Show your work.