Name:

Block:

2.4 Assignment

_____ 1. Expand and simplify: $(6p + 3)(5p - 6)$

      a. $30p^2 + 21p - 18$ c. $30p^2 + 51p - 18$

      b. $30p^2 - 21p - 18$ d. $30p^2 - 51p - 18$

_____ 2. Expand and simplify: $(8g - 3)(7 - 3g)$

      a. $-24g^2 + 65g - 21$ c. $-24g^2 + 47g - 21$

      b. $-24g^2 - 65g - 21$ d. $24g^2 + 65g - 21$

_____ 3. Factor: $25x^2 + 58x + 16$

_____ 4. Factor: $24b^2 + 50b - 14$

_____ 5. Expand and simplify: $3(1 - 2t)(9 + 4t)$

      a. $-24t^2 + 42t + 27$ c. $-72t^2 - 126t + 81$

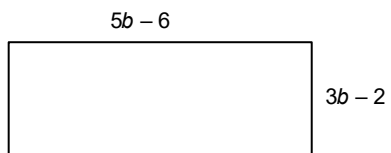   b. $-24t^2 + 66t + 27$ d. $-24t^2 - 42t + 27$

_____ 6. Factor: $4 - 9z - 13z^2$

_____ 7. Factor: $180 - 175a + 30a^2$

8. Expand and simplify: $(11t + 2)(4t - 3)$

9. Factor: $22n^2 + n - 5$

10. Find the area of the rectangle.

$5b - 6$

$3b - 2$

11. Factor: $5x^2 + 17x + 6$.

3.6 assignment
Answer Section

MULTIPLE CHOICE

1. ANS: B
2. ANS: A
3. ANS: $(25x + 8)(x + 2)$
4. ANS: $2(4b - 1)(3b + 7)$
5. ANS: D
6. ANS: $(4 - 13z)(1 + z)$
7. ANS: $5(4 - 3a)(9 - 2a)$
8. ANS:
$44t^2 - 25t - 6$

9. ANS:
$(11n - 5)(2n + 1)$

10. ANS:
Use the formula for the area, A, of a rectangle.
$A = 5b(3b - 2) + (-6)(3b - 2)$

$A = 15b^2 - 10b - 18b + 12$

$A = 15b^2 - 28b + 12$

The area of the rectangle is $15b^2 - 28b + 12$ square units.

11. ANS:
$5x^2 + 17x + 6 = (x + 3)(5x + 2)$