

Name: _____

Unit 7: Polynomials & Factoring

Date: _____

Bell: _____

Homework 3: Multiplying Binomials & Trinomials

Directions: Simplify the following polynomials. Answers must be in standard form.

1. $(x + 2)(x + 7)$

$x^2 + 7x + 2x + 14$

2. $(x + 8)(x + 3)$

$x^2 + 3x + 8x + 24$
 $x^2 + 11x + 24$

3. $(b + 4)(b - 2)$

$b^2 + 2b - 4b - 8$

4. $(w - 7)(w + 3)$

$w^2 - 7w + 3w - 21$
 $w^2 - 4w - 21$

5. $(m - 5)(m - 2)$

$m^2 - 2m - 5m + 10$
 $m^2 - 7m + 10$

6. $(y - 1)(y - 3)$

$y^2 - 3y - 1y + 3$
 $y^2 - 4y + 3$

7. $(2x + 3)(x + 1)$

$2x^2 + 2x + 3x + 3$
 $2x^2 + 5x + 3$

8. $(k + 4)(3k + 2)$

$k^2 + 2k + 12k + 8$
 $3k^2 + 14k + 8$

9. $(4m + n)(m - 2n)$

$4m^2 + 3mn - 2n^2 - 2n^2$
 $4m^2 - 4mn - 2n^2$

10. $(w + 6)(3w - 4)$

$w^2 - 3w^2 + 18w - 24$
 $3w^2 + 14w - 24$

11. $(5x + 3)(x - 2)$

$5x^2 + 3x - 10x - 6$
 $5x^2 - 7x - 6$

12. $(2a - 4b)(7a - 2b)$

$14a^2 - 4ab - 28ab + 8b^2$
 $14a^2 - 32ab + 8b^2$

13. $(x + 4)^2$

$x^2 + 8x + 16$

14. $(a - 3)^2$

15. $(4m + 1)^2$

$16m^2 + 8m + 1$

16. $(x + 1)(x - 1)$

17. $(y - 8)(y + 8)$

$y^2 - 64$

18. $(2w + 1)(2w - 1)$

19. $(3a + 4b)(3a - 4b)$

$9a^2 - 16b^2$

20. $(x + 5)(x^2 + 4x - 8)$

$x^3 + 9x^2 + 17x - 40$

21. $(m + 3)(m^2 + 4m + 7)$

$m^3 + 7m^2 + 19m + 21$

22. $(4x - 1)(x^2 - 7x + 1)$

23. $(2h + 3)(2h^2 + 3h + 4)$

$4h^3 + 17h^2 + 17h + 12$

24. $(3x + 2)(5x^2 - 12x - 2)$

25. Write an expression to represent the area of the shaded region in simplest form.

$5x + 2$



$3x - 1$

$14x^2 - 6x - 2$

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JG Myers



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