

FMPG 10: Chapter 4 Factoring Review

Name: _____

Date: _____ Block: _____

Factor fully, if possible. Answers are scrambled on the back of this sheet.

1. $5y^2 - 20y$

2. $2x(m + n) - (m + n)$

3. $m^2 + 11m + 24$

4. $3x^2 + 12x - 36$

5. $2x^2 - 7x + 5$

6. $4x^2 + 6x + 2$

7. $x^2 - 25$

8. $x^2 + 10x + 25$

9. $5x^2 - 5$

10. $2xy - 8xy^3$

11. $5a(y + 2) + 7(y + 2)$

12. $9t - 4t^3$

13. $x^2 + 3x + 4$

14. $ay^2 + 12ay - 28a$

15. $2m^2 + 2m - 3$

16. $6x^2 - x - 1$

17. $x^2 + 6x + 9$

18. $2x^2 + 11x + 5$

19. $20m^2 - 8m - 12$

20. $m^2 + 16$

21. $4a^2 - 16b^2$

22. $9t^2 - 6t + 1$

23. $18y^2 + 60y + 50$

24. $5x^2 - 15x + 10$

25. $w^2 - w - 30$

26. $8x^4 - 20x^2 - 48$

27. $(x-10)^2 - (y-5)^2$

28. $16m^4 - 36n^4$

29. $x^4 - 13x^2 + 36$

30. $7st - 22mn$

31. $25r^2 - 20r + 4$

32. $3y^2 - 27$

33. $x^3 - 4x^2 + 4x$

34. $9x^2 - 24x + 16$

35. $y^3 - 18y^2 + 81y$

36. $20r^2 + 7rp - 6p^2$

Answers (all mixed up – each answer is used only once)

$5y(y-4)$	$a(y+14)(y-2)$	$(x+3)^2$	$4(a+2b)(a-2b)$
$y(y-9)^2$	$(3x-4)^2$	$(2x-1)(3x+1)$	$(m+n)(2x-1)$
$(x+5)(x-5)$	$(x+2)(x-2)(x+3)(x-3)$	$x(x-2)^2$	$(5r-2)^2$
$3(x+6)(x-2)$	$(y+2)(5a+7)$	$(x+y-15)(x-y-5)$	$3(y+3)(y-3)$
$4(2x^2 + 3)(x+2)(x-2)$	$5(x+1)(x-1)$	$t(3+2t)(3-2t)$	$(x+5)(2x+1)$
$4(2m^2+3n^2)(2m^2-3n^2)$	$(3t-1)^2$	$(x+5)^2$	$2xy(1+2y)(1-2y)$
$5(x-2)(x-1)$	$(m+8)(m+3)$	$(2x-5)(x-1)$	$4(m-1)(5m+3)$
$2(3y+5)^2$	$(5r-2p)(4r+3p)$	$(w-6)(w+5)$	$2(2x+1)(x+1)$
Will not factor	Will not factor	Will not factor	Will not factor