

NAME _____

DATE _____

Module 12 Simplifying Algebraic Expressions by
Factoring Polynomials
Lesson 2 Factoring by Grouping



**additional
practice**

Factor.

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

2. $2(b - 2) - b(b - 2)$

3. $g(g + h) + h(g + h)$

4. $d(d + 3) - 3(d + 3)$

5. $(a + b) + c(a + b)$

6. $p(m - n) - (m - n)$

7. $x(y + 2) - y(y + 2)$

8. $c(d - 4) + d(d - 4)$

9. $x(x - y) - 2(y - x)$

10. $c(a - b) + d(b - a)$

11. $x^2 - 2x + 3x - 6$

12. $y^2 + 4y - 2y - 8$

13. $cd - 2c - 6d + 12$

14. $pq + 3q - 4p - 12$

15. $a^2 + 6a - 3a - 18$

16. $4t - 8 + t^2 - 2t$

17. $4z - 24 + yz - 6y$

18. $p + 3 + p^2 + 3p$

19. $3c^3 - 3c^2 + c - 1$

20. $2m^3 - 21 + 6m^2 - 7m$

21. $7y^3 - 12 + 21y^2 - 4y$

22. $z^3 - 8z^2 - 3z + 24$

23. $2p^2 + 15q + 5p + 6pq$

25. $4x^2 - 3xy + 8xy - 6y^2$

27. $3m^2 - 3mn + m - n$

24. $18r^2 + 3rs - 12rs - 2s^2$

26. $3a^2 - 2ab + 12a - 8b$

28. $2xz - 2yz - 3x + 3y$

