

A1 S2 w5d1 More 8-2 Factor Out the GCF

Alg 1 Week 5 Monday

Warm Up



Find the Greatest Common Factor of each expression. **DO NOT factor out the GCF, just find it!** Ask yourself, “What is the largest expression that will go into each of these terms?” Start by thinking about just the numbers, then include each of the variables, too. (We did this before by using prime factoring. See if you can do this page without it!)

1. $4x + 8$

GCF = _____

2. $12b + 18$

GCF = _____

3. $z^2 + 4z$

GCF = _____

4. $3x^2 + 6x + 12$

GCF = _____

5. $5t^2 + 10t$

GCF = _____

6. $7r + 21$

GCF = _____

7. $4x^2 + 16$

GCF = _____

8. $5n - 20$

GCF = _____

9. $9y^2 - 27y$

GCF = _____

10. $6c^3 + 12c^2 - 15c$

GCF = _____

11. $12ab + 15ac$

GCF = _____

12. $24m - 16$

GCF = _____

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Just the Factors, Ma'am



Now **factor out** the *GCF* for each problem. Show each expression factored, with the GCF in front of the parentheses. Do this without using the prime factoring method! You can check your work by multiplying.

1. $4x + 8$

2. $12b + 18$

3. $z^2 + 4z$

4. $3x^2 + 6x + 12$

5. $5t^2 + 10t$

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7. $4x^2 + 16$

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13. $16x^2 + 24x$

14. $42n^2 + 21n$

15. $21r^2 - 24r$

16. $64k - 48$

17. $10a^2 - 100ab$

18. $18 - 4y$

19. $42x^2 + 28xy$

20. $32a^2 - 8ab$

21. $3n^3 - 18n^2 + 15n$

22. $4k^5 + 10k^4 - 8k^3$

23. $32r^4 - 40r^3 + 56r^2$

24. $9v^2 + 24v - 15$

25. $42x^2 + 63xy + 70y^2$

26. $12u^3 - 18u^2v + 2uv^2$

27. $9x^2 + 9xy - 72y^2$

28. $9u^2v^2 + 9uv^3 - 45v^4$