

Factoring Refresher

Quadratic equations can be solved by factoring as well.
Use the problems below to refresh your factoring skills ☺

SET 1: Greatest Common Factor

1. $12k - 18$

2. $40x^8y + 64x^4y$

3. $14m^6 - 35m^3 - 7m^2$

4. $3ab^2 - 5a^2b + 8ab$

**** When factoring, always look for a _____ first! ****

SET 2: Trinomials ($ax^2 + bx + c$, where $a = 1$)

5. $x^2 + 14x + 45$

6. $w^2 - 15w + 26$

7. $c^2 + 2c - 48$

8. $n^2 - n - 72$

9. $a^2 + 12a + 36$

10. $n^2 - 2n + 1$

11. $2k^2 - 16k - 40$

12. $5z^2 - 25z + 30$

SET 3: Trinomials ($ax^2 + bx + c$, where $a > 1$)

13. $2x^2 - 15x + 18$

14. $5p^2 + 22p - 48$

15. $3h^2 - 19h - 40$

16. $12x^2 + 5x - 2$

17. $6y^2 - 5y - 21$

18. $16m^2 + 60m - 54$

19. $9x^2 - 12x + 4$

20. $8y^2 + 56y + 96$

SET H: Difference of Squares

21. $x^2 - 4$

22. $y^2 - 81$

23. $9x^2 - 25y^4$

24. $m^2n^2 - 49$

25. $72r^6 - 2s^2$

26. $2a^2b - 32a^4b$