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