FACTORING POLYNOMIALS – Day 1

Multiply $(x – 3)(x – 1)$: _____

Answer: _____

REMEMBER: FACTORING IS THE _____ OF MULTIPLICATION!

Steps for factoring:
1) **Factor out the GCF (which is _____)**
2) **What is the sum: _____ What is the product: _____**
3) **Find the factors of the product that add up to your sum.**

4) **Fill in your parenthesis**
   _____ $(x$_____$)(x$_____$)$
   GCF

Factor the following trinomials completely.

1. $x^2 + 2x + 1$	2. $2x^2 – 2x – 24$
3. $x^2 + 15x + 36$	4. $2x^2 – 16x + 32$

5. $3x^2 - 3x - 18$	6. $x^2 - 11x + 28$
7. $x^2 + 3x - 70$	8. $x^2 - 11x - 60$

9. Which expression is equivalent to $2x^2 + 7x - 4$?

    A. $(2x + 1)(x - 4)$

    B. $(2x + 1)(x + 4)$

    C. $(2x - 1)(x + 4)$

    D. $(2x - 1)(x - 4)$