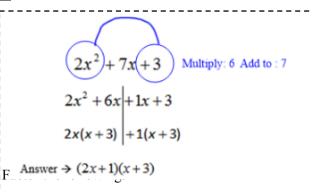
<u>Do Now-</u> Factor the following: x(x+4)+5(x+4)

AIM: INTRO TO FACTORING "HARD" TRINOMIALS <u>Guided Practice</u>

- 1) Multiply the first and last coefficients. ("headphones")
- 2) Find factors that add or subtract to the middle term and multiply to the product of the first and last coefficients.
- 3) Rewrite the problem with 4 terms.
- 4) Factor by "Grouping"- Split problem down the middle.
- 5) Factor the 1st two terms (GCF).
- 6) Copy the () on the other side.
- 7) Put the GCF of last two terms in front.
- 8) Factor using GCF- Your GCF will be a common ().
- 9) Check by Double Distributing.



$$1. 3x^2 + 10x + 8$$

$$2 2x^2 + 7x + 6$$

3.
$$2x^2 + 7x + 3$$

4.
$$2x^2 + 11x + 5$$