Do Now- Factor the following: $x(x+4)+5(x+4)$

## AIM: INTRO TO FACTORING "HARD" TRINOMIALS Guided Practice

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 $1^{\text {st }}$ 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. $3 x^{2}+10 x+8$
2. $2 x^{2}+7 x+6$
3. $2 x^{2}+7 x+3$
4. $2 x^{2}+11 x+5$
