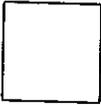


4. Factor each trinomial.

a) $4x^2 + 8x + 2$

Since all the terms are positive, use algebra tiles.

Use , , and .

Since is the GCF of 4, 8, and 2, arrange the tiles in equal groups.
Sketch the tiles.

There are equal groups, so is one factor.

Each group models + + ,
so this polynomial is the other factor.

So, $4x^2 + 8x + 2 =$ _____

b) $-15a^2 + 10a - 30$

Factor each term of the trinomial.

The GCF is _____.

Divide each term of the trinomial by _____.

Remove -1 as a common factor.

So, $-15a^2 + 10a - 30 =$ _____

c) $24n^2 - 16n - 8$

So, $24n^2 - 16n - 8 =$ _____