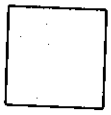
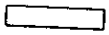
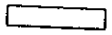
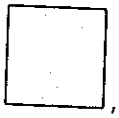
11. Use algebra tiles to factor $2x^2 + 11x + 5$.

Sketch the tiles.

Use _____  , _____  , and _____ □.

Arrange _____  beneath and to the right of the rectangle formed

by _____  , so there is space to fit _____ □.

So, $2x^2 + 11x + 5$ = _____

12. Factor each trinomial.

a) $7n^2 + 8n + 1$

$7n^2 + 8n + 1$

The 1st term is _____.
The factors of _____ are:
_____ and _____

The 3rd term is _____.
The factors of _____ are:
_____ and _____

There is only 1 possible binomial product.

$7n^2 + 8n + 1$ = (_____ + _____)(_____ + _____)

b) $3v^2 - 8v + 4$

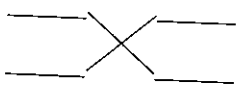
$3v^2 - 8v + 4$

The 1st term is _____.
The factors of _____ are:
_____ and _____

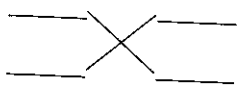
The 3rd term is _____.
The factors of _____ are:
_____ and _____;
_____ and _____

The 2nd term of the trinomial is _____, and the 3rd term is _____, so write only the _____ factors of _____.

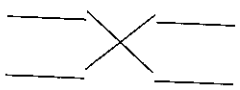
Write each pair of factors of _____ next to the pair of factors of _____.
Find the products. Stop when you get _____ as the sum of the products.



[_____ × (_____)] + [_____ × (_____)] = _____ − _____
= _____



[_____ × (_____)] + [_____ × (_____)] = _____ − _____
= _____



[_____ × (_____)] + [_____ × (_____)] = _____ − _____
= _____

The binomial factors are (_____ − _____)(_____ − _____).
So, $3v^2 - 8v + 4$ = _____