

Factored: *

4. x(x+4)





5. 2x(x-3)

Label the area of each section. Write the area of the following rectangles in both factored form and standard form

14. 10 Factored form Standard form_ 15. Factored form Standard form

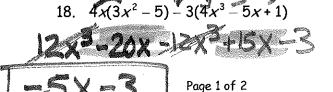
Factored:

Use the Distributive Property to write each expression in standard form.

16. 2x(3x-4)

15x310x2+5X

17. $5x(3x^2-2x+1)$



Double Distribution

The expression (x+3)(x+2) is in $\underline{*}$

form because it is the product of

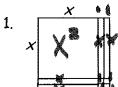
two factors.

The expression $x^2 + 5x + 6$ is in Standard form because it is written as the sum or difference of terms. Latter distributions and Simplifying)

To Multiply two binomials you can use the FOIL Method. Find the sum of the products of:

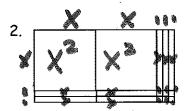
F: the First terms O: the Outer terms I: the Inner terms L: the Last terms

Each rectangle has been created with algebra tiles. Write the area of each figure in factored and standard form. Then identify the a, b, and c values.



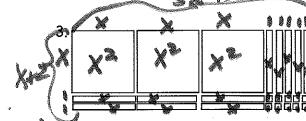
Standard X 4 4

$$a = b = c = c$$



Standard 2X + 7x

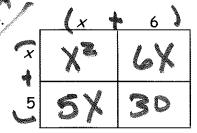
$$a = b = c = c$$



Factored:

$$a = b = c = c$$

For each of the figures below, fill in the area of each section. Write two expressions for the area of tentire figure, one in factored form and one in standard form.



Factored: (X+6)(X+S)

5.

Each expression represents the area of a rectangle. Write an equivalent expression in standard form. Draw and label a rectangle if necessary.

6.
$$(x+5)(x+4)$$

7.
$$(x+4)^2$$

10.
$$(x+12)(x+9)$$

8.
$$(2x+1)(x+6)$$

11.
$$(3x+2)(x+5)$$