

Worksheet 2.6 – The Distributive Property (textbook pages 100-107)**LEVEL 1****Simplify each expression (if possible).**

1.) $2x + 3x$

2.) $-4x + 7y$

3.) $2x^2 - 2x^2$

LEVEL 2**Simplify each expression.**

4.) $2x^2 + 6x - 5x^2$

5.) $3(a + 5)$

6.) $(y - 2)4$

7.) $2x(5 + 3y)$

8.) $(r + 6x)3$

9.) $c(c + 7)$

LEVEL 3**Simplify each expression.**

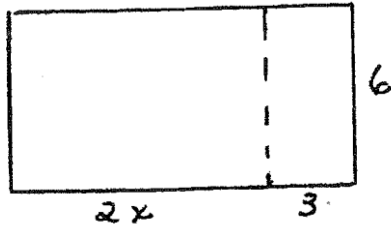
10.) $-w(2w + 8) + w^2$

11.) $4x(3x - 7) + x$

LEVEL 4 QUESTIONS ON THE BACK!

LEVEL 4

16.) Write an expression for the area of the large rectangle below.



17.) Simplify the expression. Show your work.

$$2x(x - 7) + 4x(-x + 3) + 2x - 5$$

18.) You want to buy a backpack and a new shirt for school. You found a shirt to buy that is \$22. There is also a 6% sales tax in Michigan. Let b represent the cost of the backpack. Write an expression to show the total cost of buying both the shirt and backpack with the tax included. Show your work.