

P.S. #3.2 - Solving Equations By Distributing and Combining Like Terms

Name: _____ Class: _____

Simplify the following expressions.

1.) $7y + 4(x + 5)$

2.) $2(x + y) + 9x + 6y$

3.) $9 + 2(x + 7) - 7(y + 2)$

Solve the following equations.

4.) $5x - 3x - 5 = 7$

5.) $4(x - 2) + x = 7$



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6.) $-7x + 1 + 4x + 3 = 31$

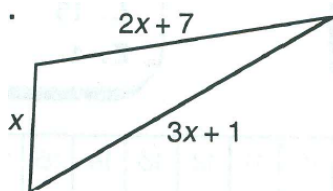
7.) $3(2x - 1) - 4x + 2x = -7$

8.) $-5(x - 7) = -40$

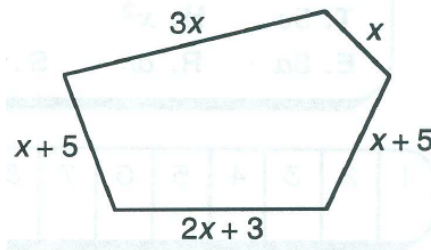
9.) $\frac{3}{4}x + 3 - \frac{2}{4}x = 8$



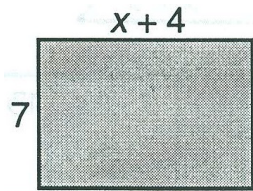
10.) Write and simplify an expression for the perimeter of the polygon below.



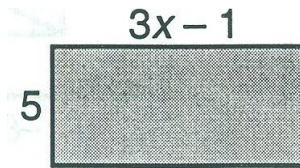
11.) Write and simplify an expression for the perimeter of the polygon below.



12.) Write an equation and solve for x if the area of the rectangle is 70 square units.



13.) Write an equation and solve for x if the area of the rectangle is 55 square units.



Selected Answers:

4.) 6

5.) 3

6.) -9

7.) -1

8.) 15

9.) 20

12.) 6

13.) 4