

Combining Like Terms Practice

Name Answer Key

Simplify each expression.

1.  $3x + 9x$   
 $-6x$

2.  $(7p^2 + 4p^2) + 3p + 5p^2$   
 $-2p^2 + 3p$

3.  $2(3x + 5) + x + 3x^2$   
 $(6x) + 10 + x + 3x^2$   
 $3x^2 + 5x - 10$

4.  $(a^2 + b^2 + 5a^2) + 3a + 4b^2$   
 $-4a^2 + 5b^2 + 3a$

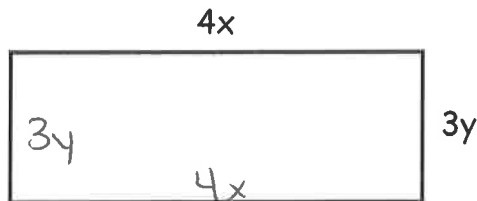
5.  $(7h^2 + 4h + 8) + 5h^3 + h + 5$   
 $5h^3 + 7h^2 - 3h - 13$

6.  $4n + 5 + 3n^2 + (2n + 7n^2)$   
 $4n + 5 + 3n^2 + 2n + 7n^2$   
 $10n^2 + 2n - 5$

7.  $(30m^2 + 14n^2) + 8 + 10m^2 + 5n + 1$   
 $20m^2 + 14n^2 + 5n + 7$

8.  $(3a^2 + 8a) + 2a^2 + 5 + 5a^2 + 5$   
 $5a^2 + -5a^2 = 0$   
 $-5 + 5 = 0$   
 $-8a$

9. Find the perimeter of the rectangle by combining like terms.



$4x + 3y + 4x + 3y$   
 $8x + 6y$

10. Find the perimeter of the figure.

$(6a + b) + 5b + 4a + 2b + 5$   
 $2a + 8b + 5$

