

Combining like terms

Name _____ Date _____

Medium: Two variables, negative coefficients · Grades 6–7

Simplify each expression by combining like terms.

1. $-8 - 3y + 4y + 2x - x + 2x$

= _____

2. $6y + 4 - 2y + x - 2x$

= _____

3. $15 - 2x + 6y - x - 6y$

= _____

4. $1 - 3y + 3y + 7x + 4x - 6x$

= _____

5. $8x + 5y + 3x + 13 - 9y$

= _____

6. $7x + 7y + 6y + 6x + 12$

= _____

7. $8y + 5x + 5y - 3 + 4x$

= _____

8. $8y + 8y + 4x - 8x + 2$

= _____

9. $-x + 4y + 7x - 3 + 5x - 3y$

= _____

10. $7x + 3x - 7y - 9 + 5y$

= _____

11. $2x + 8y + 12 - 3x - 6x + 4y$

= _____

12. $-7y - 4x + 4x - 10 - 9y$

= _____

13. $9x + 9x + 7y + 5 - 3y$

= _____

14. $5y - 2x + 4x + 11 + 5x - 2y$

= _____

15. $9 + 3y + 8x + 5y + 3x$

= _____

16. $5 - 4y + 4x - 3x + 3y$

= _____

Combining like terms — answer key

Set 101

Medium: Two variables, negative coefficients · Grades 6–7

Simplify each expression by combining like terms.

1. $-8 - 3y + 4y + 2x - x + 2x$

$= \underline{3x + y - 8}$

2. $6y + 4 - 2y + x - 2x$

$= \underline{-x + 4y + 4}$

3. $15 - 2x + 6y - x - 6y$

$= \underline{-3x + 15}$

4. $1 - 3y + 3y + 7x + 4x - 6x$

$= \underline{5x + 1}$

5. $8x + 5y + 3x + 13 - 9y$

$= \underline{11x - 4y + 13}$

6. $7x + 7y + 6y + 6x + 12$

$= \underline{13x + 13y + 12}$

7. $8y + 5x + 5y - 3 + 4x$

$= \underline{9x + 13y - 3}$

8. $8y + 8y + 4x - 8x + 2$

$= \underline{-4x + 16y + 2}$

9. $-x + 4y + 7x - 3 + 5x - 3y$

$= \underline{11x + y - 3}$

10. $7x + 3x - 7y - 9 + 5y$

$= \underline{10x - 2y - 9}$

11. $2x + 8y + 12 - 3x - 6x + 4y$

$= \underline{-7x + 12y + 12}$

12. $-7y - 4x + 4x - 10 - 9y$

$= \underline{-16y - 10}$

13. $9x + 9x + 7y + 5 - 3y$

$= \underline{18x + 4y + 5}$

14. $5y - 2x + 4x + 11 + 5x - 2y$

$= \underline{7x + 3y + 11}$

15. $9 + 3y + 8x + 5y + 3x$

$= \underline{11x + 8y + 9}$

16. $5 - 4y + 4x - 3x + 3y$

$= \underline{x - y + 5}$