



**THIRD SPACE
LEARNING**

Combining Like Terms Worksheet

Algebra

Grades 6 to 8

Skill Questions

Name:

Date:

- 1 Combine the like terms in the expression $3x + 2y - 5x + 7y$.

Answer

- 2 Simplify the expression $2a - 4b + 3a + 2b$.

Answer

- 3 What is the result of combining terms in the expression

$$5p - 2p + 3q - 7p + 4q?$$

Answer

- 4 Combine the like terms in the expression $6m + 8n - 2m - 5n$.

Answer

- 5 Simplify the expression $4x + 2y - 3x - 5y$.

Answer

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6 What is the simplified form of $7a - 2b - 4a + 5b$?

Answer

7 Combine like terms in the expression $9c - 2d - 5c + 3d$.

Answer

8 Simplify the expression $6p + 3q - 2p - 7q + 4p$.

Answer

9 Determine the result of combining like terms in $5x - 3y + 2x + 6y$.

Answer

10 What is the simplified form of $8m - 3n + 4m - 2n$?

Answer

Applied Questions

- 11** Emily is designing custom T-shirts for a school event. The cost of each T-shirt is \$10, and she plans to make $3x$ T-shirts with the school logo and $2y$ T-shirts with a special design. Write an expression to represent the total cost of the T-shirts, combining like terms.

Answer

- 12** A rectangular garden has a length of $5a$ meters and a width of $2b$ meters. Write an expression for the perimeter of the garden, combining like terms.

Answer

- 13** Sarah has $4p$ apples and $3q$ oranges. She wants to distribute them equally among 2 baskets. Write an expression to represent the number of fruits in each basket, combining like terms.

Answer

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- 14 The temperature in a city increases by $3x$ degrees during the morning and decreases by $2y$ degrees in the evening. Write an expression for the net temperature change, combining like terms.

Answer

- 15 A company sells $6m$ units of product A and $4n$ units of product B. The revenue from product A is \$5 per unit, and from product B is \$8 per unit. Write an expression for the total revenue, combining like terms.

Answer

Answers

Question number	Question	Answers	Standard
1	Combine the like terms in the expression $3x + 2y - 5x + 7y$.	$-2x + 9y$	6.EE.A.3
2	Simplify the expression $2a - 4b + 3a + 2b$.	$5a - 2b$	6.EE.A.3
3	What is the result of combining terms in the expression $5p - 2p + 3q - 7p + 4q$?	$-4p + 7q$	6.EE.A.3
4	Combine the like terms in the expression $6m + 8n - 2m - 5n$.	$4m + 3n$	6.EE.A.3
5	Simplify the expression $4x + 2y - 3x - 5y$.	$x - 3y$	6.EE.A.3
6	What is the simplified form of $7a - 2b - 4a + 5b$?	$3a + 3b$	6.EE.A.3
7	Combine like terms in the expression $9c - 2d - 5c + 3d$.	$4c + d$	6.EE.A.3
8	Simplify the expression $6p + 3q - 2p - 7q + 4p$.	$8p - 4q$	6.EE.A.3
9	Determine the result of combining like terms in $5x - 3y + 2x + 6y$.	$7x + 3y$	6.EE.A.3
10	What is the simplified form of $8m - 3n + 4m - 2n$?	$12m - 5n$	6.EE.A.3

Combining Like Terms | Grades 6 to 8 | Answers




Question number	Question	Answers	Standard
11	Emily is designing custom T-shirts for a school event. The cost of each T-shirt is \$10, and she plans to make T-shirts with the school logo and T-shirts with a special design. Write an expression to represent the total cost of the T-shirts, combining like terms.	$30x + 20y$	6.EE.A.3
12	A rectangular garden has a length of $5a$ meters and a width of $2b$ meters. Write an expression for the perimeter of the garden, combining like terms.	$10a + 4b$	6.EE.A.3
13	Sarah has $4p$ apples and $3q$ oranges. She wants to distribute them equally among 2 baskets. Write an expression to represent the number of fruits in each basket, combining like terms.	$2p + 1\frac{1}{2}q$	6.EE.A.3
14	The temperature in a city increases by $3x$ degrees during the morning and decreases by $2y$ degrees in the evening. Write an expression for the net temperature change, combining like terms.	$3x - 2y$	6.EE.A.3
15	A company sells $6m$ units of product A and $4n$ units of product B. The revenue from product A is \$5 per unit, and from product B is \$8 per unit. Write an expression for the total revenue, combining like terms.	$30m + 32n$	6.EE.A.3

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-  thirdspacelearning.com/us/
-  +1 929-298-4593
-  hello@thirdspacelearning.com



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