

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.



What is the result of combining terms in the expression 5p-2p+3q-7p+4q?



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

Answer

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

Answer

Combining Like Terms | Grades 6 to 8

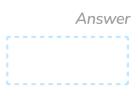
6 What is the simplified form of 7a - 2b - 4a + 5b?

Answer

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



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



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-shirts 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.
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

Com	ning Like Terms Grades 6 to 8
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.
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15	A company sells $6m$ units of product A and $4n$ units of product B. The evenue 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.
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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.	$oxed{10a+4b}$	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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