Simplifying Expressions Worksheet

Algebra

Grades 6 to 8

Skill Questions

Name: ....

Date: ....

1 Simplify the expression $2x + 3y - (4x - 2y)$.

Answer

2 What is the simplified form of $5a - (2a - 3b)$?

Answer

3 Combine like terms in the expression $3p + 4q - 2p + 5q$.

Answer

4 Simplify the expression $7m - 3n + 2m - 4n$.

Answer

5 Combine like terms in the expression $6x + 2y - 3x + 5y$.

Answer

Simplifying Expressions Worksheet | Grades 6 to 8

6 What is the result of simplifying $8c - (3d + 2c)$?

Answer

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7 Simplify the expression $4p + 5q - 2p - 3q + 6p$.

Answer

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8 Combine like terms in the expression $9x - 4y + 2x - 7y$.

Answer

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9 What is the simplified form of $6a - 2b - 3a + 4b$?

Answer

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10 Simplify the expression $3m + 2n - (5m - 3n)$.

Answer

Applied Questions

11 Sarah has $2x$ red apples and $3y$ green apples. Write an expression to represent the total number of apples she has, simplifying like terms.

Answer

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12 A rectangular room has a length of $4a$ meters and a width of $2b$ meters. Write an expression for the area of the room, simplifying as much as possible.

Answer

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13 Tim has $5p$ dollars and spends $2p$ dollars on a book. Write an expression for the amount of money he has left, simplifying like terms.

Answer

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14 Jacob is collecting stickers for his album. He currently has $3s + 2s - 4$ stickers, where s represents the number of stickers he receives from each friend. Jacob wants to simplify the expression to know how many stickers he has in total. What is the simplified expression representing the total number of stickers Jacob has, and how many stickers does he have in total?

Answer

15 A company produces $7m$ units of product A and $4n$ units of product B. The cost of producing each unit of A is $5, and of B is $8. Write an expression for the total production cost, simplifying like terms.

Answer

Answers

Question number	Question	Answers	Standard
1	Simplify the expression $2x + 3y - (4x - 2y)$.	$-2x + 5y$	6.EE.A.3
2	What is the simplified form of $5a - (2a - 3b)$?	$3a + 3b$	6.EE.A.3
3	Combine like terms in the expression $3p + 4q - 2p + 5q$.	$p + 9q$	6.EE.A.3
4	Simplify the expression $7m - 3n + 2m - 4n$.	$9m - 7n$	6.EE.A.3
5	Combine like terms in the expression $6x + 2y - 3x + 5y$.	$3x + 7y$	6.EE.A.3
6	What is the result of simplifying $8c - (3d + 2c)$?	$6c - 3d$	6.EE.A.3
7	Simplify the expression $4p + 5q - 2p - 3q + 6p$.	$8p + 2q$	6.EE.A.3
8	Combine like terms in the expression $9x - 4y + 2x - 7y$.	$11x - 11y$	6.EE.A.3
9	What is the simplified form of $6a - 2b - 3a + 4b$?	$3a + 2b$	6.EE.A.3
10	Simplify the expression $3m + 2n - (5m - 3n)$.	$-2m + 5n$	6.EE.A.3
11	Sarah has $2x$ red apples and $3y$ green apples. Write an expression to represent the total number of apples she has, simplifying like terms.	$2x + 3y$	6.EE.A.3

Simplifying Expressions Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
12	A rectangular room has a length of $4a$ meters and a width of $2b$ meters. Write an expression for the area of the room, simplifying as much as possible.	$8ab$	6.EE.A.3
13	Tim has $5p$ dollars and spends $2p$ dollars on a book. Write an expression for the amount of money he has left, simplifying like terms.	$3p$	6.EE.A.3
14	Jacob is collecting stickers for his album. He currently has $3s + 2s - 4$ stickers, where s represents the number of stickers he receives from each friend. Jacob wants to simplify the expression to know how many stickers he has in total. What is the simplified expression representing the total number of stickers Jacob has, and how many stickers does he have in total?	$5s - 4$	6.EE.A.3
15	A company produces $7m$ units of product A and $4n$ units of product B. The cost of producing each unit of A is \$5, and of B is \$8. Write an expression for the total production cost, simplifying like terms.	$35m + 32n$	6.EE.A.3

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