

Combining like terms

Name: _____ Marks: _____

- 1 The sum of three consecutive terms $3a$, $4a$, and $5a$ is?

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- 2 There are $2a + 6$ dogs and $5a + 3$ cats in a pet shop. How many animals are there in total?

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- 3 A box contains $(7y^2 + 5y + 9)$ red balls and $(4y^2 + 6y + 8)$ blue balls. How many balls are there in total?

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- 4 A chef used $(10x + 4)$ grams of flour for one cake and $(7x + 6)$ grams for another. How much flour was used?

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- 5 Combine like terms: $(8m + 6) + (3m + 4)$

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- 6 A bank had $(9x + 4)$ deposits on Monday and $(6x + 3)$ on Tuesday. How many deposits were made in total?

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- 7 A software company completed $(9x^2 + 7x - 6)$ projects in January and $(5x^2 + 3x - 4)$ in February. What is the total?

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- 8 Simplify: $(8x^2 + 3x - 7) + (5x^2 + 4x + 2)$

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- 9 Simplify: $(4x^2 + 3x + 2) + (6x^2 + 5x + 4)$

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- 10 A square field has sides of length $(5x + 3)$. Find the perimeter.

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11 A factory produces $12a + 8$ cars in one month and $7a + 4$ in the next. How many cars are produced in total?

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12 A store had $(10a + 5)$ t-shirts and sold $(4a + 2)$. How many are left?

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13 A triangle has sides of lengths $(2x + 3y)$, $(4x + 5y)$, and $(3x + 2y)$. Find the perimeter.

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14 A car traveled $(14x^2 + 5x + 9)$ miles on Monday and $(7x^2 + 4x + 3)$ miles on Tuesday. What is the total distance?

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15 John ran $4m + 2$ miles on Monday and $6m + 3$ miles on Tuesday. How many miles did he run in total?

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