

Combining like terms

Name: _____ Marks: _____

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

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- 2 Simplify: $(9y^3 + 4y^2 - 7) + (3y^3 + 6y^2 + 5)$.

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- 3 Mike collected $10y + 4$ coins last week and $7y + 3$ this week. How many coins does he have now?

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- 4 A clothing store has $8x + 10$ shirts and $5x + 4$ pants. How many clothing items are there in total?

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- 5 Simplify: $(11m^3 + 6m^2 - 5) + (-3m^3 + 8m^2 + 2)$.

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- 6 A student read $(7x + 5)$ pages in one day and $(5x + 3)$ pages in another. How many pages were read in total?

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- 7 The profit of a company is given by $(8x^2 + 9x - 12)$ and the expenses by $(3x^2 + 5x - 6)$. Find the net profit.

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- 8 Simplify: $(6y + 4) - (2y + 3)$

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- 9 A sports team scored $(4m + 6)$ points in the first half and $(5m + 4)$ points in the second half. What is the total score?

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- 10 A bakery made $(9x + 7)$ pies and sold $(4x + 3)$. How many pies are left?

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11 Sarah has $3x + 4$ notebooks at home and $2x + 6$ at school. How many notebooks does she have in total?

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12 Tom has $5x + 2$ pencils and buys $3x$ more. How many pencils does he have now?

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13 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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14 There are $2a + 6$ dogs and $5a + 3$ cats in a pet shop. How many animals are there in total?

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15 Simplify: $(12x^2 + 9x - 4) + (-5x^2 + 6x + 7)$.

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