

Combining like terms

Name: _____ Marks: _____

1 Simplify: $(5p + 3) - (2p + 1)$

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2 Emma has $10x + 4$ stickers and gives $3x + 2$ to her friend. How many stickers does she have now?

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3 A rectangular prism has volume $(12a^3 + 8a^2 - 6a + 3)$ and another has $(9a^3 + 6a^2 + 5a - 2)$. Find the total volume.

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4 Simplify: $(15x^3 + 8x^2 - 4x + 6) + (9x^3 + 6x^2 + 3x - 2)$

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5 A store had revenue of $(9x^2 + 5x + 12)$ dollars on Monday and $(6x^2 + 7x + 8)$ dollars on Tuesday. What was the total revenue?

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6 A company had $(9y^2 + 5y - 3)$ profit and spent $(4y^2 + 3y - 2)$. Find the net profit.

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7 A parking lot has $3x + 7$ red cars and $2x + 4$ blue cars. How many cars are there in total?

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8 A car's fuel consumption is $(4y + 6)$ liters on Monday and $(3y + 4)$ liters on Tuesday. How much fuel was consumed?

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9 A classroom has $6b + 5$ boys and $7b + 4$ girls. How many students are in the classroom?

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

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11 A student solved $(7x + 9)$ math problems in the morning and $(5x + 4)$ in the evening. How many problems were solved?

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12 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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13 A train covered $(13m + 7)$ miles in the morning and $(9m + 5)$ in the evening. How far did it travel?

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

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15 Simplify: $(22x^3 + 15x^2 - 9x + 4) + (17x^3 + 12x^2 + 6x - 3)$

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