

Combining like terms

Name: _____ Marks: _____

1 Combine the like terms: $(3x^2 + 4x + 7) + (5x^2 + 2x + 9)$.

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2 A florist received $8m + 9$ roses and $4m + 5$ lilies. How many flowers did the florist receive in total?

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3 Sophia buys $4x + 2$ pens and $6x + 3$ pencils. How many writing tools does she have?

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4 Simplify: $(3a + 2) + (6a + 4)$

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5 A farmer planted $4p + 6$ corn plants and $3p + 5$ wheat plants. How many plants are there in total?

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6 James is twice as old as Sarah. If Sarah's age is represented as x , what is their total age?

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7 A scientist mixed $(5x + 3y)$ ml of one solution with $(4x + 2y)$ ml of another. How much solution was mixed?

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8 A company produced $(6y^3 + 3y^2 + 8)$ products in January and $(4y^3 + 7y^2 + 5)$ in February. How many products were made in total?

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

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

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11 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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12 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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13 A contractor hired $6p + 4$ workers for one project and $5p + 7$ for another. How many workers were hired in total?

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14 A florist arranged $6b + 8$ roses and $3b + 4$ lilies. How many flowers are there in total?

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15 A school library has $9y + 6$ fiction books and $5y + 3$ non-fiction books. How many books are in the library?

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