Algebra Check for Understanding

A 10 question retrieval quiz for students in grades 6 to 8.

Grades 6 to 8

Questions

Name: .... Class: ....

Date: .... Score: ....

1 A chocolate bar costs c cents and a drink costs d dollars. Write an algebraic expression for the cost of 2 chocolate bars and 2 drinks.

Answer

2 Simplify the expression: $4m + 5 + 2m - 1$

Answer

3 A city parking garage charges a flat fee of $10, plus an additional $3 per hour. Write an algebraic expression that models this situation where h represents the amount of hours.

Answer

4 Add the expressions:

$(5x + 2y - 6) + (-4x + 8 - y)$

Answer

5 Factor the expression:

(6x + 54)

Answer

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6 Joey bought a new television for $320. The television was on sale for 20% off. What was the price of the television before the sale?
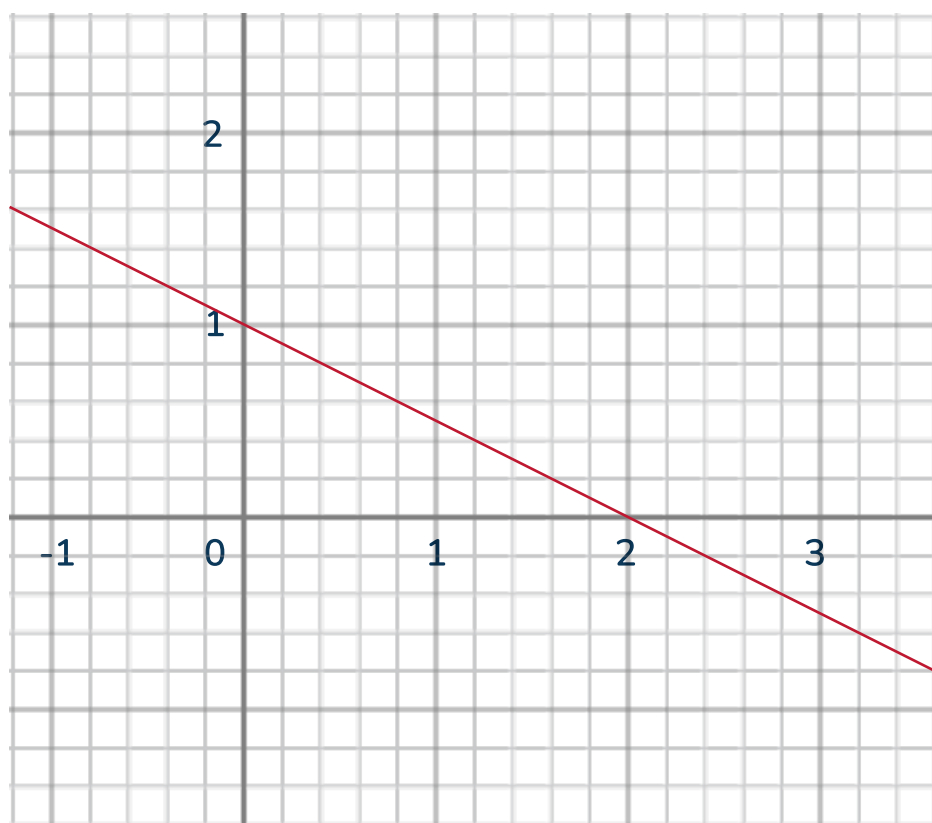
Answer

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7 How many solutions does the equation have?

4(x + 3) = 2(2x + 6)

Answer

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8 Solve the equation.

$-3(x - 5) + 4 = -x - 9$

Answer

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9 Write the equation of the line in slope intercept form.

Answer

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10 Solve the system of equations:

$x - y = 8$

$2x + y = 4$

Answer

Answers

Question number	Question	Answers	Standard
1	A chocolate bar costs c cents and a drink costs d dollars. Write an algebraic expression for the cost of 2 chocolate bars and 2 drinks.	$2c + 2d$	6.EE.A.2.a 7.EE.B.4.a
2	Simplify the expression: $4m + 5 + 2m - 1$	$6m + 4$	6.EE.A.3 7.EE.A.1
3	A city parking garage charges a flat fee of $10, plus an additional $3 per hour. Write an algebraic expression that models this situation where h represents the amount of hours.	$10 + 3h$ OR $3h + 10$	7.EE.B.4.a
4	Add the expressions: $(5x + 2y - 6) + (-4x + 8 - y)$	$x + y + 2$	7.EE.A.1
5	Factor the expression: $(6x + 54)$	$6(x+9)$	7.EE.A.1
6	Joey bought a new television for $320. The television was on sale for 20% off. What was the price of the television before the sale?	$400	7.EE.B.3 8.EE.C.7.b
7	How many solutions does the equation have? $4(x + 3) = 2(2x + 6)$	Infinite solutions	8.EE.C.7.a
8	Solve the equation. $-3(x - 5) + 4 = -x - 9$	$x = 14$	8.EE.C.7.b

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Question number	Question	Answers	Standard
9	Write the equation of the line below in slope intercept form	$y = -\dfrac{1}{2}x + 1$	8.EE.B.6
10	Solve the system of equations: $x - y = 8$ $2x + y = 4$	$(4, -4)$ OR $x = 4$, $y = -4$	8.EE.C.8

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