

Algebraic Expressions: Number Puzzle

Evaluate each expression for the given values of the variables and place the answer in its correct location in the puzzle. Place each digit and negative sign in its own box. (Do not put positive signs in the puzzle). 3 across has been done as an example.

1.		2.		3.	-	2	5		4.	5.
		6.						7.		
8.				9.						
10.	11.	12.				13.			14.	
	15.			16.				17.		

ACROSS	DOWN
1. $2x + 3y$ for $x = -10$ and $y = 3$	2. $a - 2b$ for $a = 9$ and $b = -2$
3. $5x - 5y$ for $x = -1$ and $y = 4$	3. $4m + 2n$ for $m = -3$ and $n = -5$
4. $3(r - s)$ for $r = 8$ and $s = -1$	4. $2xy$ for $x = -2$ and $y = -6$
6. $100b - 2c$ for $b = 4$ and $c = 44$	5. $6(5 - b)$ for $b = -7$
7. $3xyz$ for $x = -1$, $y = -2$ and $z = -7$	7. $4(2 + c) - d$ for $c = -3$ and $d = 10$
9. $-4(m + n)$ for $m = -3$ and $n = -2$	8. $2(g - 2h)$ for $g = 3$ and $h = -9$
10. $x(15 - y)$ for $x = 25$ and $y = 6$	11. $-2x + 3y$ for $x = -25$ and $y = -8$
13. $x + y + z$ for $x = -3$, $y = 35$ and $z = 2$	12. $5r - 2s$ for $r = 7$ and $s = -12$
15. $-fg + 4h$ for $f = -3$, $g = 7$ and $h = 12$	13. $6(2 - k) - 5$ for $k = -5$
16. $2(b + 3) - a$ for $b = -9$ and $a = 15$	14. $5c - 4(2 + b)$ for $b = -4$ and $c = 10$
17. $p(4 + t) - 16$ for $p = -2$ and $t = -8$	

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Evaluate each expression for the given values of the variables and place the answer in its correct location in the puzzle. Place each digit and negative sign in its own box. (Do not put positive signs in the puzzle). 3 across has been done as an example.

ANSWER KEY

1.	-	1	1		3.	-	2	5		4.	2	7			
			6.	3	1	2			7.	-	4	2			
8.	4				9.	2	0		1						
10.	2	11.	2	12.	5				13.	3	4		14.	5	
		15.	6	9			16.	-	2	7			17.	-	8

ACROSS	DOWN
1. $2x + 3y$ for $x = -10$ and $y = 3$	2. $a - 2b$ for $a = 9$ and $b = -2$
3. $5x - 5y$ for $x = -1$ and $y = 4$	3. $4m + 2n$ for $m = -3$ and $n = -5$
4. $3(r - s)$ for $r = 8$ and $s = -1$	4. $2xy$ for $x = -2$ and $y = -6$
6. $100b - 2c$ for $b = 4$ and $c = 44$	5. $6(5 - b)$ for $b = -7$
7. $3xyz$ for $x = -1$, $y = -2$ and $z = -7$	7. $4(2 + c) - d$ for $c = -3$ and $d = 10$
9. $-4(m + n)$ for $m = -3$ and $n = -2$	8. $2(g - 2h)$ for $g = 3$ and $h = -9$
10. $x(15 - y)$ for $x = 25$ and $y = 6$	11. $-2x + 3y$ for $x = -25$ and $y = -8$
13. $x + y + z$ for $x = -3$, $y = 35$ and $z = 2$	12. $5r - 2s$ for $r = 7$ and $s = -12$
15. $-fg + 4h$ for $f = -3$, $g = 7$ and $h = 12$	13. $6(2 - k) - 5$ for $k = -5$
16. $2(b + 3) - a$ for $b = -9$ and $a = 15$	14. $5c - 4(2 + b)$ for $b = -4$ and $c = 10$
17. $p(4 + t) - 16$ for $p = -2$ and $t = -8$	

Algebraic Expressions

Evaluate each expression for the given values of the variables.

1. $2x + 3y$ for $x = -10$ and $y = 3$	11. $a - 2b$ for $a = 9$ and $b = -2$
2. $5x - 5y$ for $x = -1$ and $y = 4$	12. $4m + 2n$ for $m = -3$ and $n = -5$
3. $3(r - s)$ for $r = 8$ and $s = -1$	13. $2xy$ for $x = -2$ and $y = -6$
4. $100b - 2c$ for $b = 4$ and $c = 44$	14. $6(5 - b)$ for $b = -7$
5. $3xyz$ for $x = -1$, $y = -2$ and $z = -7$	15. $4(2 + c) - d$ for $c = -3$ and $d = 10$
6. $-4(m + n)$ for $m = -3$ and $n = -2$	16. $2(g - 2h)$ for $g = 3$ and $h = -9$
7. $x(15 - y)$ for $x = 25$ and $y = 6$	17. $-2x + 3y$ for $x = -25$ and $y = -8$
8. $x + y + z$ for $x = -3$, $y = 35$ and $z = 2$	18. $5r - 2s$ for $r = 7$ and $s = -12$
9. $-fg + 4h$ for $f = -3$, $g = 7$ and $h = 12$	19. $6(2 - k) - 5$ for $k = -5$
10. $2(b + 3) - a$ for $b = -9$ and $a = 15$	20. $5c - 4(2 + b)$ for $b = -4$ and $c = 10$

Algebraic Expressions

ANSWER KEY

Evaluate each expression for the given values of the variables.

1. $2x + 3y$ for $x = -10$ and $y = 3$ -11	11. $a - 2b$ for $a = 9$ and $b = -2$ 13
2. $5x - 5y$ for $x = -1$ and $y = 4$ -25	12. $4m + 2n$ for $m = -3$ and $n = -5$ -22
3. $3(r - s)$ for $r = 8$ and $s = -1$ 27	13. $2xy$ for $x = -2$ and $y = -6$ 27
4. $100b - 2c$ for $b = 4$ and $c = 44$ 312	14. $6(5 - b)$ for $b = -7$ 72
5. $3xyz$ for $x = -1$, $y = -2$ and $z = -7$ -42	15. $4(2 + c) - d$ for $c = -3$ and $d = 10$ -14
6. $-4(m + n)$ for $m = -3$ and $n = -2$ 20	16. $2(g - 2h)$ for $g = 3$ and $h = -9$ 42
7. $x(15 - y)$ for $x = 25$ and $y = 6$ 225	17. $-2x + 3y$ for $x = -25$ and $y = -8$ 26
8. $x + y + z$ for $x = -3$, $y = 35$ and $z = 2$ 34	18. $5r - 2s$ for $r = 7$ and $s = -12$ 59
9. $-fg + 4h$ for $f = -3$, $g = 7$ and $h = 12$ 69	19. $6(2 - k) - 5$ for $k = -5$ 37
10. $2(b + 3) - a$ for $b = -9$ and $a = 15$ -27	20. $5c - 4(2 + b)$ for $b = -4$ and $c = 10$ 58