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Free Worksheet on the Combining Like Terms

Combining like terms Name: KEY

Fill out the chart below:

Expression	Value when x=3 & y=2	Simplified	Value when x=3 & y=2
A $x^2 + 3x - 5 + x^2 - 3x + 11$	24	$2x^2 + 6$	24
B $x^2 + 2x^2 + 3x^2 + 4x^2$	90	$10x^2$	90
C $2x^2 - 5 - x^2 + 6$	10	$x^2 + 1$	10
D $4x^2 + 16 - 3x^2 - 9$	16	$x^2 + 7$	16
E $x^2 + 4x - x^2 + 2x - 1$	17	$6x - 1$	17
F $12x - x$	33	$11x$	33
G $8x - 2y + 8x + 12y - 14$	54	$16x + 10y - 14$	54
H $2x^2 + y^2 + 10xy + 13x^2 + 11xy + 6y^2$	289	$15x^2 + 7y^2 + 21xy$	289
I $3y^2 + 4x - y^2 - x + 1$	18	$2y^2 + 3x + 1$	18
K $-(9 - 3x)$	0	$-9 + 3x$	0
L $16 - (-x + 10)$	9	$6 + x$	9
M $12x - (7x - 2x)$	21	$7x$	21
N $4x^2 - 2y + 11yx^2 + 6y - x^2$	233	$3x^2 + 11yx^2 + 4y$	233
O $11x - (10x + 6x)$	-15	$-5x$	-15
P $y + y + 5y$	14	$7y$	14
R $7x - 10x$	-9	$-3x$	-9
S $7x - 8y + 2x + 5y + 210$	231	$9x - 3y + 210$	231
T $-(6 + 6x)$	-24	$-6 - 6x$	-24
U $6 - (-x - 10)$	19	$16 + x$	19

The essence of mathematics is not to make simple things complicated, but to make complicated things simple.

S. Gudder



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E

$$3x + 4x^2 - 6 + 8x - 7x^2$$

$$10x^4 + 6x + 2$$

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Simplifying Expressions

Name _____

Simplify each expression and match it to the simplified version.

$a + 2b + 2b - 4$	→	$a + 4b - 4$	(N)
$3a + 8a - 2b$	→	$11a - 2b$	(P)
$8a + 2b + 3a - 9b$	→	$11a - 7b$	(J)
$8a - 8 + 4a - 4b$	→	$12a - 4b - 8$	(B)
$7a - 14b + 14 + 7b$	→	$7a - 7b + 14$	(A)
$3a + 8 - 4b - 12 + 2a$	→	$5a - 4b - 4$	(I)
$2b - 8 - 3a - 6b - 9$	→	$-3a - 4b - 17$	(L)
$-3a + 3b - 14a - 7b$	→	$-17a - 4b$	(E)
$4a - 2b - 4a - 12b$	→	$-14b$	(G)
$-6a - 4b + 2 + 3a + 12b - 6$	→	$-3a + 8b - 4$	(H)
$a - 2b + 5a - 6$	→	$6a - 2b - 6$	(O)
$-15a - 3b + 16a + 4b$	→	$a + b$	(M)
$2a - 4b - 3a + 6b + 6$	→	$-a + 2b + 6$	(C)
$2a + 2b - 6a - 3 - 2b + 6$	→	$-4a + 3$	(D)
$3a - 6b - 6 + 2a + 6b + 2$	→	$5a - 4$	(K)
$3a + 4a + 2b - 4 + 5b - 10$	→	$7a + 7b - 14$	(F)

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Lesson 4: Algebraic Concepts

GLE: 12

KEY

Practice

Directions: For Numbers 1 through 12, simplify each expression.

1. $4y - y + 6$ $3y + 6$

2. $-5 - 12b - 7$ $-12 - 12b$

3. $9 + 5r + 11r - 12$ $10r - 3$

4. $-17 + 4 + 9j$ $9j - 13$

5. $6q + 3q^2 + 4$ Simplified

6. $-11y + 12 - 3y + 4$ $-14y + 16$

7. $3p - 7 - 11p$ $-8p - 7$

8. $-15f + 6 + 7$ $-15f + 13$

9. $5 + 3z^2 + 8 - 9z^2$ $-6z^2 + 13$

10. $3d^2 + 5d + 2d + 4$ $3d^2 + 7d + 4$

11. $6v + 7x - 4v$ $2v + 7x$

12. $4g^2 + 5g^2 + 9g - 3g$ $9g^2 + 6g$

You are here: Home eAAA Worksheets eAAA Simplify expressions With this worksheet generator, you can make printable worksheets for simplifying variable expressions for pre-algebra and algebra 1 courses. The worksheets can be made either as PDF or html files (the latter are editable in a word processor). The expressions include ones where you need to combine like terms (such as 2t eAAA 9 eAAA 6t + 2), use the distributive property (such as 9 eAAA 2(x + 7)), and to multiply and divide monomials, such as 2x2 A-A (eAAA5x3) and eAAA4x2 A-A y2 / 3x5. Basic instructions for the worksheets Each worksheet is randomly generated and thus unique. The answer key is automatically generated and is placed on the second page of the file. You can generate the worksheets either in html or PDF format eAAA both are easy to print. To get the PDF worksheet, simply push the button titled "Create PDF" or "Make PDF worksheet". 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