Addieren und Subtrahieren mit Variablen

Lösungsblatt

1	$4a + (3b + a) - 4b = 4a + 3b + a = \mathbf{5a + 3b}$
2	$(5e + 3f) + (3e - f) = 5e + 3f + 3e - f = \mathbf{8e + 2f}$
3	$15g - (4h + 5h - 2g) = 15g - 4h - 5h + 2g = \mathbf{17g - 9h}$
4	$(2k - 3l) - (7k + 5l) = 2k - 3l - 7k - 5l = \mathbf{-5k - 8l}$
5	$5m - 4n + (7n - 4m) = 5m - 4n + 7n - 4m = \mathbf{m + 3n}$
6	$7p - (5q - 3q + 2p - q) = 7p - 5q + 3q - 2p + q = \mathbf{5p - q}$
7	$5r + 3s + (7r - 5s - r) = 5r + 3s + 7r - 5s - r = \mathbf{11r - 2s}$
8	$8t - (9t + 5u) - 4u = 8t - 9t - 5u - 4u = \mathbf{-t - 9u}$
9	$(2v - 7w) - (3v - 4w) + w = 2v - 7w - 3v + 4w + w = \mathbf{-v - 2w}$
10	$12x + (3y - 5x) - (x + y) = 12x + 3y - 5x - x - y = \mathbf{6x + 2y}$
11	$5 - (4a + b) + (2a - 7) = 5 - 4a - b + 2a - 7 = \mathbf{-2a - b - 2}$
12	$15m - (3n - 5 - 2m) - 8 = 15m - 3n + 5 + 2m - 8 = \mathbf{17m - 3n - 3}$
13	$5e - (3f + 2e) + (3e - f) = 5e - 3f - 2e + 3e - f = \mathbf{3e - 4f}$
14	$(3g - 2h) - (7g - 7h) + h = 3g - 2h - 7g + 7h + h = \mathbf{-4g + 6h}$
15	$2i - j - (3i - 4j) + i = 2i - j - 3i - 4j + i = \mathbf{-5j}$
16	$3x - y + (x - y) + 2y - x = 3x - y + x - y + 2y - x = \mathbf{3x}$

Lösungen

$-5k - 8l$	**H**	$3x$	**!**	$17m - 3n - 3$	**F**	$5p - q$	**I**	$-5j$	***H***	$-2a - b - 2$	***N***
				$-t - 9u$	**T**	$3e - 4f$	**A**	$17g - 9h$	**T**	$11r - 2s$	**S**
$-v - 2w$	**E**	$8e + 2f$	**A**	$m + 3n$	**E**	$5a + 3b$	**M**	$6x + 2y$	**I**	$-4g + 6h$	**C**

1	2	3	4	5
M	A	T	H	E

6	7	8
I	S	T

9	10	11	12	13	14	15	16
E	I	N	F	A	C	H	!

Autor: Erich Hnilica | **Thema:** Terme, Variable, Addition, Subtraktion