

Gleichungen mit Klammersausdrücken 2

Lösungsblatt

1			2								
$2(8x - 10) = 6(2x + 8)$ $16x - 20 = 12x + 48 \quad / -12x$ $4x - 20 = 48 \quad / +20$ $4x = 68 \quad / : 4$ $x = 17$						$2(5x + 6) - x = 2(4x - 4)$ $10x + 12 - x = 8x - 8$ $9x + 12 = 8x - 8 \quad / -8x$ $x + 12 = -8 \quad / : (-12)$ $x = -20$					
17	Z	6	L	-6	N	-5	O	12	E	-20	Y

3			4								
$(3x - 1) \cdot 10 - 65 = 5(2x + 5)$ $30x - 10 - 65 = 10x + 25$ $30x - 75 = 10x + 25 \quad / -10x$ $20x - 75 = 25 \quad / +75$ $20x = 100 \quad / : 20$ $x = 5$						$2x - 6(x - 3) = x - 2(5x + 6)$ $2x - 6x + 18 = x - 10x - 12$ $-4x + 18 = -9x - 12 \quad / +9x$ $5x + 18 = -12 \quad / -18$ $5x = -30 \quad / : 5$ $x = -6$					
-4	N	5	P	8	A	11	P	-6	E	-1	D

5			6								
$7(x - 4) - 5(x + 3) = 6(2x - 5) - 8$ $7x - 28 - 5x - 15 = 12x - 30 - 8$ $2x - 43 = 12x - 38 \quad / -2x$ $-43 = 10x - 38 \quad / +38$ $-5 = 10x \quad / : 10$ $x = -0,5$						$5(3x + 2) - 4(5 + 3x) = 8(x + 5) + 5x$ $15x + 10 - 20 - 12x = 8x + 40 + 5x$ $3x - 10 = 13x + 40 \quad / -3x$ $-10 = 10x + 40 \quad / -40$ $-50 = 10x \quad / : 10$ $x = -5$					
-0,5	R	-2	O	3	E	-7	N	6	L	-5	N

Lösungswort:

Z	Y	P	E	R	N
1	2	3	4	5	6