

MATHS WORKSHEETS- ALGEBRA- GROUPING SYMBOLS- EXPAND AND SIMPLIFY

Expand and simplify.

1	$5(x + y) + 6x =$	
2	$3(2a + 5b) + 3a + 6 =$	
3	$3(5x + y) - 4y =$	
4	$5(2a - 3b) - 4a - 6b =$	
5	$3(m - 2n) - 3n =$	
6	$5a - 2(a - 3) =$	
7	$4x - 2(2x - y) =$	
8	$8m - 2(2m + 3) =$	
9	$6x(x + 2) - 5x^2 =$	
10	$4(a + 3) + 3(a + 5) =$	
11	$3(m + 7) + 2(5m - 4) =$	
12	$8(3a + 2) + 4(a + 2) =$	
13	$5(2x + 6) - 5(6x - 2) =$	
14	$3(m + 8) - 3(m - 5) =$	
15	$4(3x + 1) - 5(2x - 8) =$	
16	$7(a - 2) - 4(a + 8) =$	
17	$x(2x + 4) - 3x(x + 3) =$	
18	$2(m + 9) - 7(m - 1) =$	
19	$-7(3x - 2) + 2(x - 1) =$	
20	$6(x + 2) - 2(x + 3) =$	

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Answer Key:

1	$5x + 5y + 6x$	$11x + 5y$
2	$6a + 15b + 3a + 6$	$9a + 15b + 6$
3	$15x + 3y - 4y$	$15x - y$
4	$10a - 15b - 4a - 6b$	$6a - 21b$
5	$3m - 6n - 3n$	$3m - 9n$
6	$5a - 2a + 6$	$3a + 6$
7	$4x - 4x + 2y$	$2y$
8	$8m - 4m - 6$	$4m - 6$
9	$6x^2 + 12x - 5x^2$	$x^2 + 12x$
10	$4a + 12 + 3a + 15$	$7a + 27$
11	$3m + 21 + 10m - 8$	$13m + 13$
12	$24a + 16 + 4a + 8$	$28a + 24$
13	$10x + 30 - 30x + 10$	$-20x + 40$
14	$3m + 24 - 3m + 15$	39
15	$12x + 4 - 10x + 40$	$2x + 44$
16	$7a - 14 - 4a - 32$	$3a - 46$
17	$2x^2 + 4x - 3x^2 - 9x$	$-x^2 - 5x$
18	$2m + 18 - 7m + 7$	$-5m + 25$
19	$-21x + 14 + 2x - 2$	$-19x + 12$
20	$6x + 12 - 2x - 6$	$4x + 6$