Brilliance Tuition Centre, Redbank Plains

MATHS WORKSHEETS- ALGEBRA- EXPAND & SIMPLIFY EXPRESSIONS

Expand and simplify the following expressions.

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

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Answer Key:

1	$9x + 28$
2	$3m - 16$
3	$8y - 11$
4	$-8a^2 + 8ab + 20a$
5	$-6x - y$
6	$2x^3 + 10x - 12$
7	$x - 15$
8	$22x - 30y$
9	$-3a + 6b - 8c + 3$
10	$2a + b$
11	$-10m + 1$
12	$6a^3b - 19a^2 + 2ab$
13	$4x^2 - 7x + 12$
14	$-y + 5$
15	$-5m + 26$
16	$-8t^2 + 8t + 7$
17	$-30p^2 - 10pq - 12p$
18	$7x + 4y - 4z + 4$
19	$-12m^2 + 3m + 12$
20	$12a^3b - 18a^2 - 2a$