



Writing algebraic expressions and equations

Worksheet 2

Write algebraic expressions and combine like terms

1. Add three times a and thirty two.
2. Sum of 5 times x and three times y added to 18
3. Subtract four times x from 50 and add 7y -5.
4. Subtract $(3x - 7y)$ from $(8x + 12y)$ and then add $(24 + 10x + 7y)$.
5. Multiply $(3x - 4y)$ by 7.
6. Multiply $(7x - 5y)$ and 3 and add $(2x + 5y)$.
7. Divide 75 by $(2x - 4y)$ and add $(6x + 2y + 13)$.
8. Multiply $(9x + 5y)$ and 6 and then divide the product by $(2y - 3x)$.
9. Add $(4x + 6y)$ to $(2x - y)$ and multiply the sum by 15.
10. Subtract $(x - 2y)$ from $(3y - 5x)$ and add $(4x + 2y)$.

Write the following expressions as verbal expression or equation.

11. $3x - 4z$
12. $\frac{1}{2}x + 7$
13. $3(4x - 5)$
14. $\frac{p}{2} - 4$
15. $(x + 5) + 2(5x - 2)$



ANSWERS:

1. **(3a + 32)**

2. **(5x + 3y + 18)**

3. $50 - 4x + 7y - 5 = (45 - 4x + 7y)$

4. $8x - 12y - (3x - 7y) + (24 + 10x + 7y) = (15x + 26y + 24)$

5. **(21x - 28y)**

6. **(23x - 10y);**

7. $\frac{75}{2x-4y} + (6x + 2y + 13)$

8. $\frac{4x+30y}{2y-3x}$

9. **(90x - 75y)**

10. **(7y - 2x)**

11. $3x - 4z =$ **Three times x decreased by four times z**

12. $\frac{1}{2}x + 7 =$ **One half of x added to 7**

13. $3(4x - 5) =$ **Product of 3 and 4 times x decreased by 5**

14. $\frac{p}{2} - 4 =$ **4 less than quotient of p and 2**

15. $(x+5) + 2(5x-2) =$ **sum of x and 5 added to 2 times 2 less than 5 times x**