Mathematics Form 1
Algebraic Expressions Practice 1

1. State the number of terms in the expression
$2x + 5y - 8z + 10$
A. 3
B. 4

2. For the given term $2xyz$, state the coefficient of x.
A. 2
B. $2y$
C. $2z$
D. $2yz$

3. For the given term $\frac{xy}{2}$, state the coefficient of x.
A. $2y$
B. $\frac{y}{2}$

4. For the given term 2x, determine the like terms.
A. $3x$
B. $-4x$
C. $5x^2$
D. $\frac{1}{2}x$

5. For the given term 2xy, determine the like terms.
A. $5x$
B. $6y$
C. $7xy$
D. $-8yx$

6. Simplify $2x + 8x - 4x$
A. $-6x$
B. $6x$
C. $8x$
D. $14x$

7. Simplify $2x - 10x - 4x$
A. $-12x$
B. $-4x$
C. $4x$
D. $12x$

8. Simplify $12x + (-8x) + (-6x)$
A. $-12x$
B. $-2x$
C. $2x$
D. $10x$

9. Simplify $5x + (-12x) - (-3x)$
A. $4x$
B. $-4x$
C. $10x$
D. $20x$

10. Simplify
$(5x - 4y + 2z) + (2x - 2y - 5z)$
A. $7x - 2y - 7z$
B. $7x - 2y + 3z$
C. $7x + 2y - 3z$
D. $7x - 6y - 3z$

11. Simplify
$(5x - 4y + 2z) - (2x - 2y - 5z)$
A. $3x - 2y - 7z$
B. $3x - 2y - 7z$
C. $3x - 6y - 3z$
D. $3x - 2y + 7z$

12. Simplify
$2(5x - 4y + 2z) + 3(2x - 2y - 5z)$
A. $16x - 14y + 11z$
B. $16x - 14y - 11z$
C. $16x + 2y + 19z$
D. $16x - 2y + 19z$

13. Simplify
$2(5x - 4y + 2z) - 3(2x - 2y - 5z)$
A. $4x - 14y - 11z$
B. $16x - 2y + 11z$
C. $4x - 2y + 19z$
D. $4x + 2y + 19z$

LIVEWORKSHEETS

14. Simplify $(2a)(4a^2)$
   A. $6a^2$
   B. $8a^2$
   C. $8a^3$
   D. $8a^4$

15. Simplify $(2ab^2)(-3ab^3)$
   A. $6ab^5$
   B. $6a^2b^5$
   C. $-6a^2b^5$
   D. $-6ab^5$

16. Simplify $\frac{8a^3}{2a}$
   A. $4a$
   B. $4a^2$
   C. $4a^4$
   D. $16a^4$

17. Simplify $\frac{8a}{2a^3}$
   A. $4a^2$
   B. $\frac{a^2}{4}$
   C. $\frac{4}{a^2}$
   D. $\frac{4}{a}$

18. Simplify $\frac{8ab^3}{2a^2b}$
   A. $\frac{4a}{b^2}$
   B. $4ab^2$
   C. $4a^3b^4$
   D. $\frac{4b^2}{a}$

19. Simplify $\frac{(2ab^2)(-3ab^3)}{-4ab}$
   A. $6ab^4$
   B. $-\frac{3a^2b^3}{2}$
   C. $-\frac{3ab^4}{2}$
   D. $\frac{3ab^4}{2}$

20. Simplify $\frac{(2ab^2c)(-3ab^3)}{-4a^2b^2c^4}$
   A. $\frac{3a^2b^3}{2c^3}$
   B. $\frac{6a^2b^3}{c^3}$
   C. $\frac{3b^3}{2c^3}$
   D. $\frac{3b^3}{2ac^3}$

LIVEWORKSHEETS