

**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.  $4x + 2y + 19z$

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.  $\frac{3b^3}{2ac^3}$