

NAME _____

Module 2 Writing and Simplifying Algebraic Expressions
Lesson 1 Using the Language of Algebra



**additional
practice**

Identify the coefficient of each monomial.

1. $-2G$

 -2

2. p

 1

3. $5.7T$

 5.7

4. $-0.03k$

 -0.03

5. $\frac{u}{4}$

 $\frac{1}{4}$

6. $-\frac{B}{8}$

 $-\frac{1}{8}$

7. $\frac{9x}{11}$

 $\frac{9}{11}$

8. $-\frac{3r}{8}$

 $-\frac{3}{8}$ Give an example of a term that consists of: **possible answers given**

9. A decimal number

 0.7 10. A single variable with coefficient -1 $-x$

11. A coefficient with two variables

 $6xy$ 12. A coefficient of $\frac{1}{3}$ with a cubed variable $\frac{x^3}{3}$

13. An integer

 -8

14. Two variables with a coefficient of negative 4

 $-4xy$ 15. A coefficient of -1 with one squared variable $-x^2$ 16. A coefficient of $\frac{3}{4}$ with three variables $\frac{3xyz}{4}$ Give an example of each of the following types of polynomials. **possible answers given**

17. Trinomial

 $x^2 + 4x - 3$

18. Binomial

 $7m + 1$

19. Monomial

 $2ab^3$

Identify each polynomial as a *monomial*, *binomial*, or *trinomial*.

20. $xy^2 + 4xy$

Binomial

21. $5xy^2 + y$

Binomial

22. $6rs$

Monomial

23. $c^3 + 3c^2 + 5c$

Trinomial

24. $3PT$

Monomial

25. $10 - 4mn^2 + mn$

Trinomial

26. $v^3w - v^2w^2 - 5vw^3$

Trinomial

27. $\frac{6m}{5} - \frac{1}{6}$

Binomial

Find the degree of each monomial.

28. $8xy$

2

29. D^6F^2

8

30. $\frac{3w}{7}$

1

31. $\frac{1}{9}$

0

Find the degree of each polynomial.

32. $8a^4b - 7a^2b^2 - 9ab^3 + 2a$

5

33. $\frac{n^6}{4} - \frac{2m}{3}$

6