

Chapter 1 — Introduction to Algebra

Worksheet A: Guided Practice

Name: _____ Grade: _____ Date: _____

1. Identify the variable in: $8m+3$

A variable is a letter that represents a number.

2. Identify the constant in: $-6n-15$

The constant has no variable.

3. Identify the coefficient of p in: $12p-7$

The coefficient is the number multiplying the variable.

4. Simplify: $7a+4a$

Add the coefficients because both terms have a .

5. How many terms are in: $4x-9y+6$

Count the separate pieces. Keep the sign with the term after it.

6. Simplify: $13b-8b$

Treat subtraction as adding a negative term.

7. Are the following like terms? $6q$ and $-2q$

Compare the variable parts.

8. Simplify: $5c+2-3c$

Combine only the c-terms.

9. Expand: $7(2x)$

A factor beside brackets means multiplication.

10. Write an algebraic expression for: a number t increased by 14

“Increased by” means add.

11. Are the following like terms? $4h$ and $4h^2$

Exponents are part of the variable part.

12. Is the following an expression or an equation? $3r+11$

Look for an equals sign.

13. Is the following an expression or an equation? $9k-5=22$

An equation says that two expressions are equal.

14. Simplify: $9d-4+d+10$

d means 1d.

15. Expand and simplify: $5(y-2)$

Multiply 5 by the negative term as well.

16. Write an algebraic expression for: a number w divided by 4

"Divided by" means the number goes on top of a fraction.
