

Chapter 1 — Introduction to Algebra

Worksheet B: Independent Practice

Name: _____ Grade: _____ Date: _____

1. Expand and simplify: $7(a+3)$

2. Simplify: $15r-6r+8$

3. Expand and simplify: $2(4b-9)$

4. Simplify: $2s+13-9s-5$

5. Expand and simplify: $-5(c-6)$

6. Simplify: $-4x+6+7x-11$

7. Expand and simplify: $-2(3d+8)$

8. Write an algebraic expression for: the product of 8 and a number n , decreased by 6

9. Identify the variables, coefficients, and constant in: $-9a+4b+16$

10. Simplify: $3m-8n+5m+2n$

11. Expand and simplify: $4(2x-1)+3x$

12. Write an algebraic expression for: five more than twice a number w

13. A music subscription charges a \$9 monthly fee and \$3 for each downloaded album a . Write an expression for the cost.

14. Write the terms in: $7x-3y-10$

15. Classify the following as an expression or an equation: $4m+9=3m-2$

16. Simplify: $12p-5+p-14$

17. Expand and simplify: $3(y+5)-2y$

18. Write an algebraic expression for: the difference between 30 and four times a number k

19. A square has side length $n+2$ centimetres. Write and simplify an expression for its perimeter.

20. A student says: $-3x+7x=-10x$. Explain the error and write the correct simplified expression.
