

Lesson 5 Homework Practice

Simplify Algebraic Expressions

Identify the terms, like terms, coefficients, and constants in each expression.

1. $4b + 7b + 5$

2. $8 + 6t - 3t + t$

3. $-5x + 4 - x - 1$

4. $2z - z + 6$

5. $4 + h - 8 - h$

6. $y - y - 2 + 2$

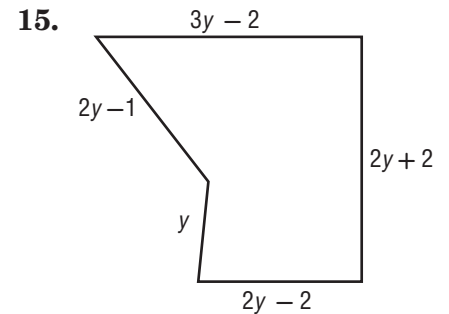
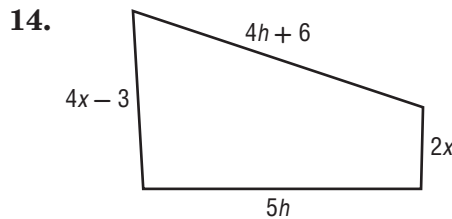
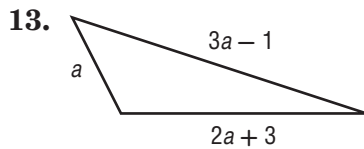
Write each expression in simplest form.

10. $-\frac{3}{4}x - \frac{1}{3} + \frac{7}{8}x - \frac{1}{2}$

11. $5c - 3d - 12c + d$

12. $-y + 9z - 16y - 25z$

MEASUREMENT Write an expression in simplest form for the perimeter of each figure.



16. **SHOPPING** Maggie bought c CDs for \$12 each, b books for \$7 each, and a purse costing \$24.

a. Write an expression to show the total amount of money Maggie spent.

b. If Maggie bought 4 CDs and 3 books, how much money did she spend?

Lesson 6 Homework Practice

Add Linear Expressions

Add. Use models if needed.

1. $(9x + 7) + (x + 3)$

2. $(-4x + 6) + (x - 5)$

5. $(-2x + 4) + (x - 11)$

6. $(8x + 9) + (-6x - 1)$

9. $(-8x + 2) + (-5x + 7)$

10. $(-4x - 2) + (13x + 1)$

13. $(4x - 1) + (-5x + 17)$

14. $(-9x + 2) + (-8x - 2)$

17. **GEOMETRY** A rectangle has side lengths of $(3x + 6)$ inches and $(2x - 4)$ inches. Write an expression to represent the perimeter of the rectangle. Then find the value of x if the perimeter is 94 inches.

18. **CRUISE SHIPS** The table shows the number of cruise ships in a harbor on various days.

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Number	$x - 4$	$x + 9$	$2x$	$3x - 7$	4

- a. Write an expression for the total number of cruise ships in the harbor on Monday and Tuesday.
- b. Write an expression for the total number of cruise ships in the harbor on all 5 days.