

LESSON**Practice A****1-9 Simplifying Algebraic Expressions****Identify like terms in each list.**

1. $6a \ b \ a \ 17 \ 4b \ 32 \ 17a$

2. $x \ x^2 \ 3x \ 3 \ 3x^2 \ 6$

3. $2 \ 6z \ 6z^2 \ z \ 17z \ z^2 \ 3$

4. $m \ 8 \ 8m^2 \ 8m \ m^2 \ 12m \ 18$

5. $2p \ 22p \ 56q \ 12^2 \ q \ 34$

6. $d \ d^2 \ 15d^2 \ 2d \ 4^2 \ 5d \ 44$

Combine like terms.

7. $6p^2 + 3p^2$

8. $9x - 6x$

9. $a^2 + b^2 + 2a^2 + 5b^2$

10. $7h^2 + 3 - 2h^2 + 4$

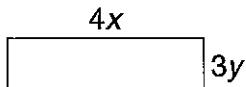
11. $3x + 3y + x + y + z$

12. $5b + 5b + 6b^2 - 10 - 3b$

13. Find the perimeter of the rectangle.

Combine like terms.

- A $4x + 3y$
 B $8x + 6y$
 C $12xy$
 D $4x^2 + 3y^2$



LESSON**Practice B****1-9 Simplifying Algebraic Expressions**

Identify like terms in each list.

1. $3a \ b^2 \ b^3 \ 4b^2 \ 4 \ 5a$

2. $x \ x^4 \ 4x \ 4x^2 \ 4x^4 \ 3x^2$

3. $6m \ 6m^2 \ n^2 \ 2n \ 2 \ 4m \ 5n$

4. $12s \ 7s^4 \ 9s \ s^2 \ 5 \ 5s^4 \ 2$

**Simplify. Justify your steps using the Commutative,
Associative, and Distributive Properties when necessary.**

5. $2p + 22q^2 - p$

6. $x^2 + 3x^2 - 4^2$

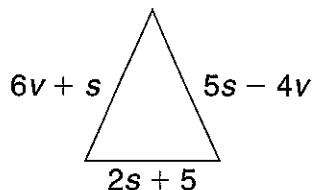
7. $n^4 + n^3 + 3n - n - n^3$

8. $4a + 4b + 2 - 2a + 5b - 1$

9. $32m^2 + 14n^2 - 12m^2 + 5n - 3$

10. $2h^2 + 3g - 2h^2 + 2^2 - 3 + 4g$

11. Write an expression for the perimeter of the figure at the right. Then simplify the expression.
-
- _____



12. Write an expression for the combined perimeters of the figures at the right. Then simplify the expression.
-
- _____

