

Name: _____ Period: _____

LESSON
1-8

Practice B

Simplifying Algebraic Expressions

Use highlighters or colored pencils to indicate like terms.

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

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

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

7. y 8 $8y^2$ $8y$ y^2 $12y$ 18

8. 2 $6z$ $6z^2$ z $17z$ z^2 3

Combine like terms and simplify the expression.

9. $2p + 22q^2 - p$

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

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

12. $4a + 4b + 2 - 2a + 5b - 1$

13. $32m^2 + 14n^2 - 12m^2 + 5n - 3$

14. $2h^2 + 3g - 2h^2 + 2^2 - 3 + 4g$

15. $6p^2 + x + 3p^2 + 15$

16. $9x + 4y - 6x + 9$

17. $a^2 + b^2 + 8 + 2a^2 + 5b^2 + 6$

18. $7h^2 + 3 - 2h^2 + 4$

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

