



NAME _____

DATE _____

Module 2 Writing and Simplifying Algebraic Expressions
Lesson 3 Identifying Algebraic Properties

Name the property each statement illustrates.

1. $(4x + 4) = 4(x + 4)$

2. $3.8 + 0 = 3.8$

3. $7x + 5y = 5y + 7x$

4. $\frac{1}{r} \cdot r = 1$

5. $(a + b)(b + c) = (b + c)(a + b)$

6. $44n + (36n + 23n) = (44n + 36n) + 23n$

7. $5 \cdot 1 = 5$

8. $(3 \cdot 8)0 = 3(8 \cdot 0)$

9. $0 = 2g + (-2g)$

10. $-\frac{1}{2} + 4 = 4 + \left(-\frac{1}{2}\right)$

11. $49 + 56y = 7(7 + 8y)$

12. $75y^2 - 250d^4 + 600 = 25(3y^2 - 10d^4 + 24)$

Write the opposite and reciprocal of each expression.

13. -7 _____

14. $\frac{2}{3}$ _____

15. $3c$ _____

16. $\frac{2}{a}$ _____

17. $-\frac{2t}{5}$ _____

18. 0 _____

Use the properties we have learned to simplify each expression. Name the property and show your work.

19. $(83 \cdot 5) \cdot 2$

20. $18 + 37n + 22$

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