

Lesson 4 Homework Practice

Powers of Monomials

Simplify.

1. $(8x^2)^3$
 $384x^6$

2. $(4ax^2)^3$
 $256a^3x^6$

3. $(12x^2)^3$
 $1,728x^6$

4. $(15ax^2)^3$
 $3,375a^3x^6$

5. $(4x^2y^3)^4$
 $16,384x^8y^{12}$

6. $(-4x^2y^3)^4$
 $256x^8y^{12}$

7. $(7^2)^3$
 7^6 or 5,764,801

8. $(3^2)^3$
 3^6 or 531,441

9. $\left(\frac{3}{5}a^2b^3\right)^4$
 $\frac{81a^8b^{12}}{25}$

10. $(4x^2)^3(3x^2)^3$
 $5,184x^6$

11. $(0.6p^2)^3$
 $0.216p^6$

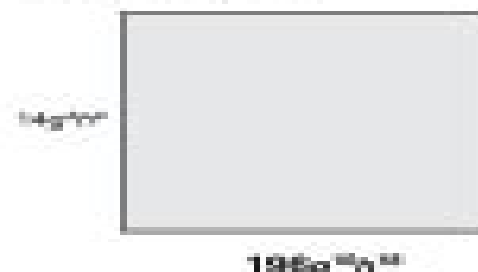
12. $\left(\frac{1}{5}m^2n^3\right)^4$
 $\frac{m^8n^{12}}{25}$

GEOMETRY Express the area of each square below as a monomial.

13.



14.



15. **MEASUREMENT** In the Metric System, you would need to have $(10^2)^6$ grams to equal 1 metric ton. Simplify this measurement by multiplying the exponents, then simplify by finding the actual number of grams needed to equal 1 metric ton. 10^6 or 100,000,000

16. **GAMING** A video-game designer is using the expression $6a^2$ in a program to determine points earned, where a is the game level. Simplify the expression for the a^2 level. $6a^4$

Powers Of Monomials Answer Key

Joseph C. Power

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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The Algebra Teacher's Guide to Reteaching Essential Concepts and Skills Judith A. Muschla, Gary R. Muschla, Erin Muschla, 2011-10-25 Easy to apply lessons for reteaching difficult algebra concepts Many students have trouble grasping algebra In this book bestselling authors Judith Gary and Erin Muschla offer help for math teachers who must instruct their students even those who are struggling about the complexities of algebra In simple terms the authors outline 150 classroom tested lessons focused on those concepts often most difficult to understand in terms that are designed to help all students unravel the mysteries of algebra Also included are reproducible worksheets that will assist teachers in reviewing and reinforcing algebra concepts and key skills Filled with classroom ready algebra lessons designed for students at all levels The 150 mini lessons can be tailored to a whole class small groups or individual students who are having trouble This practical hands on resource will help ensure that students really get the algebra they are learning **Algebra 1** Michael

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Silvano, 2008-09-02 Make math matter to students in grades 6 and up using Pre Algebra Daily Skill Builders This 96 page book features two short reproducible activities per page and includes enough lessons for an entire school year It covers topics such as fractions mixed numbers decimals integers variable expressions equations inequalities graphing ratios proportions percents rational and irrational numbers polynomials and probability Activities become more challenging as students build upon what they have learned The book is perfect for review and practice and supports NCTM standards

7th Grade Math Is Easy! So Easy Nathaniel Max Rock, 2006-02 Rock offers a guide to what it takes to master seventh grade math Education Standards-Driven 7th Grade Math (Textboo Nathaniel Max Rock, 2006-02 This guide features 180

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