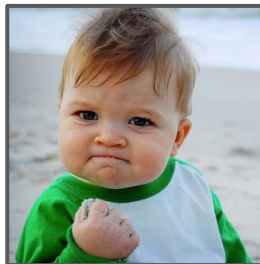


Simplifying Monomials:

The Properties of
Exponents
In Action

Self-checking Riddle
Activity



8.EE.A.1

Positive Exponents:
Product Rule
Quotient Rule
Power to a Power
Power of a Product
Power of a Quotient

Properties of Exponents

Positive Exponents
8.EE.A.1

Name _____

Date _____ Per. _____

Directions: Write the letter of each answer in the box containing the problem number.

___ 1. $3x^2 \cdot 2x^4$

___ 2. $\frac{x^5y}{x^2y^6}$

___ 3. $(3xy^2)^3$

___ 4. $2x^2y^3 \cdot 3xy^2$

___ 5. $\frac{6x^4y^5}{2x^6y^2}$

___ 6. $\frac{4x^4 \cdot 3x^5}{6x^2}$

___ 7. $\frac{6x^4y^3}{12xy}$

___ 8. $(2x^3y^2)^4$

___ 9. $\left(\frac{3x^2y^2}{6y^3}\right)^2$

___ 10. $x^2 \cdot 3x \cdot 6x^3$

___ 11. $\frac{x^0y^3}{y^6}$

___ 12. $\frac{x^6y^3y^2}{x^6y^4}$

___ 13. $2(3x^2y^3)^2$

___ 14. $2x^3y^5(6x^2y^4)$

___ 15. $(3x^5y^4)^0$

Answers:

E. y

A. $16x^{12}y^8$

H. $\frac{3y^3}{x^2}$

N. $18x^6$

L. $2x^7$

O. $6x^6$

P. $12x^5y^9$

S. $27x^3y^6$

W. $18x^4y^6$

X. $\frac{x^3y^2}{2}$

K. $\frac{1}{y^3}$

R. $\frac{x^3}{y^5}$

I. $6x^3y^5$

T. $\frac{x^4}{4y^2}$

D. 1



8

13	1	2	11	3	5	12	12	9
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13	4	9	5
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12	7	14	1	10	12	10	9	3
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10	8	4	6	12	15
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4	9
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