

Name: _____

Period: _____

Exponents and Order of Operations

Lesson Quiz Study Guide

There are 10 books in a box. There are 10 boxes packed in a truck. There are 10 trucks in a parking lot. Using exponents, find the total number of books.

What exponent completes the following equation?

$$27=3^?$$

What is the value of the expression 5^4 ?

Express using exponents: $5 \times 5 \times 5 + 3 \times 3 \times 3 \times 3$

Solve: $4 + 4^2 - 5 \times 2 =$

What is the value of $5^0 + 6^1$?

Solve: $(4+3)^2 - 12$

Solve: $6 \times 4 - 18 \div 3^2$

Which are equal to 36? (Hint: There are 2 correct choices.)

- A. 6^2
- B. 4^3
- C. 4^2+20
- D. 2^4

Write in exponential form: $4 \times 4 \times 4 \times 4 \times 4$

What is the base?

What is the exponent?

What does it equal?

When making brownies, you have 5 pans with 5 rows or 5 brownies each. Using exponents, how many brownies do you have?

Solve: $6^4 - 2^3$

True or False: $100^2 + 4^2 = 216$

Write without exponents: $(1/2)^4$

