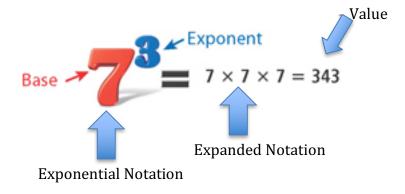
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3. 24,618 ÷ 53=_____

Lesson 3: Exponents



You Try! Write each in expanded form, then record the value.

- 7. What is the trick that can be used to help solve base ten exponents without having to do long multiplication? _____
- 8. Anything to the power of zero will always equal ______.

Compare. Use <, >, or =.

EXPONENTS ARE NUMBER 3924°!

11. Do you understand this math meme? Explain.

Lesson 4: Order of Operations

PEMDAS

Parenthesis Multiplication
Division Addition
Exponents Subtraction

*Remember M & D
and A & S are tag
teams and go in
order from left to
right



Examples:

Simplify each expression.

$$A 3^3 + 8 - 16$$

$$3^3 + 8 - 16$$
 There are no parentheses.

$$27 + 8 - 16$$

Find the values of numbers with exponents.

$$\frac{27 + 8 - 16}{35 - 16}$$

Add

19

Subtract.

B
$$8 \div (1+3) \times 5^2 - 2$$

$$8 \div (1 + 3) \times 5^2 - 2$$

$$8 \div (1 + 3) \times 3 = 2$$

 $8 \div 4 \times 5^2 = 2$

Perform operations within parentheses. Find the values of numbers with exponents.

$$2 \times 25 - 2$$

Divide.

Multiply.

48

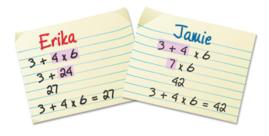
Subtract.

You Try! Simply (Solve).

12.
$$6^2 - 18 \div 3 + 15 =$$

13. 100-
$$(3^3 + 5) \div 4 \times 2 =$$

14.
$$(9^2 - 6) \div 3 + 15 =$$



15. Which student, Erika or Jamie, is correct? Explain.

<u>Lesson 5: Math Properties – Study your Vocabulary Foldables Booklet!</u>

Examples of the Distributive Property

Using the Distributive Property to Multiply

Use the Distributive Property to find each product.

A 4 × 23

$$4 \times 23 = 4 \times (20 + 3)$$

= $(4 \times 20) + (4 \times 3)$

"Break apart" 23 into 20 + 3. = $(4 \times 20) + (4 \times 3)$ Use the Distributive Property.

= 80 + 12 Use mental math to multiply. = 92 Use mental math to add.

B 8 × 74

$$8 \times 74 = 8 \times (70 + 4)$$

= $(8 \times 70) + (8 \times 4)$
= $560 + 32$

 $8 \times 74 = 8 \times (70 + 4)$ $= (8 \times 70) + (8 \times 4)$ = 560 + 32 = 592"Break apart" 74 into 70 + 4.

Use the Distributive Property.

Use mental math to multiply.

Use mental math to add.

16. Rewrite 8 x 47 using the Distributive Property.

<u>Label</u> Commutative, Associative, Distributive, or Identity <u>AND find the missing value.</u>

17.
$$(13+17) + n = 13 + (17+11)$$

19.
$$19 + n = 19$$

20.
$$5 \times 67 = (5 \times 60) + (5 \times n)$$