Do Now:

Sep 10-9:58 AM

1.2 Order of Operations

7.NS.1

• SWBAT evaluate numeric expressions and explain why order of operations is important.

Calculators: No

Sep 11-10:31 AM

numerical expression- consists of numbers and operations

evaluate- to find the value of the numerical expression

order of operations- set of rules used solve a numerical expression

PEMDAS P-parenthesis

E - exponents

M - multiply
D - divide

AA - add

🕠 S – subtract

Sep 10-9:40 AM

Sep 10-9:50 AM

Order of Operations

- 1. Evaluate any expressions with parenthesis or exponents.
- 2. Multiply and divide from left to right.
- 3. Add and subtract from left to right.

Evaluate the expressions:

a. $7 + 16 \times 3 \div 6$

7+48÷6

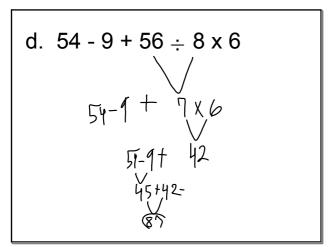
(15)

E - exponents
M - multiply
D - division
A - add
S - subtract

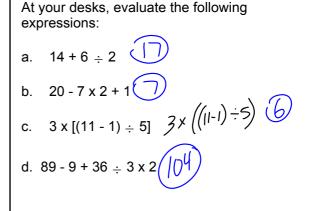
c. $9 \times 8 = \frac{72}{12} = 6$ 4 + 8 = 6 12 = 72 0

Sep 10-10:04 AM

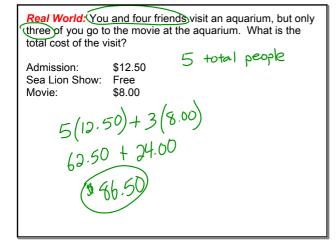
Sep 10-10:04 AM



Sep 10-10:04 AM



Sep 10-10:05 AM



1.4 Powers and Exponents

7.NS.1

• SWBAT evaluate expressions with powers.

Calculators: No

Sep 10-9:37 AM Sep 11-11:55 AM

A power is a product with a repeated factor.

The exponent tells how many times the base is used as a factor.

Sep 10-10:09 AM

Reading Powers Repeated Multiplication In Words <u>Power</u> squared 4×4 42 9×9×9 93 to the fifth 4×4×4×4×4

Sep 10-10:28 AM

Evaluate the power:

a.
$$5^{3} = 5 \times 5 \times 5 = 125$$

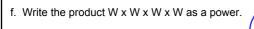
b. $2^{5} = 2 \times 2 \times 2 \times 2 \times 2 = 32$

b.
$$2^5 = 2 \times 2 \times 2 \times 2 \times 2 = (32)$$

c.
$$3^1 = 3$$

d.
$$6^{\circ} = \begin{pmatrix} 1 \end{pmatrix}$$

e. Write the product 7 x 7 x 7 x 7 x 7 x 7 as a power,



Sep 10-10:29 AM

Evaluate the expression.

a.
$$(6-4)^3+5-3^2$$

$$3^3+5-3^3$$

$$4+5-3^3$$

$$4+5-9$$

$$13-9$$

Sep 10-10:36 AM

b.
$$2 \times (7 + 1)^{2} \div 4^{2}$$

$$2 \times 8^{3} \div 4^{3}$$

$$2 \times 6^{4} \div 16$$

$$128 \div 16$$

At your desks, evaluate the following expressions:

a.
$$(5-2)^3-7+4^3$$

b.
$$12 + (4 + 2)^2 - 2^4$$

c.
$$7^3 + 24 \div (7 - 6)^4$$

"Perfect practice makes perfect."

Working individually or with a partner, complete the worksheet.



Sep 10-3:17 PM

Exit Pass 1.4

Evaluate the expression when f = 7.

 $(f-2)^3+8$



Sep 10-11:24 AM

Reflection of Today's Lesson

1.2 Order of Operations

7.NS.1

SWBAT evaluate numeric expressions and explain why order of operations is important.

1.4 Powers and Exponents

7.NS.1

SWBAT evaluate expressions with powers.

Homework Textbook

pg. 12 #1-9 <u>al</u>l

pg. 22 #11-29 odd



Sep 14-8:16 AM Sep 10-10:40 AM