

DAY 3 INCLASS

PLEASE EXCUSE MY DEAR AUNT SALLY is a lie!!!

Order of Operations

PARANTHESES---Not exactly--Actually it is grouping symbols first

EXPONENTS

MULTIPLY/DIVIDE--Not exactly--does the order I multiply/divide matter? How are multiply and divide related?

ADD/SUBTRACT--Not exactly--does the order I add/subtract matter? How are addition and subtraction

Grouping Symbols (these function just like paranthesis)

Examples of Grouping Symbols:

-Absolute Value

-Roots (radical)

-Brackets

-Fractions (Numerator/Denominator) Evaluate each expression.

Evaluate each expression.

1) $5 \cdot 10 \div 2$

2) $4^2 - 1$

3) $3 \cdot 4 - \frac{4}{4}$

4) $1 + (3 - 4)^3$

5) $-\frac{10}{5 \cdot (-6) + (-5)^2}$

6) $\frac{5 \cdot 4}{|-4|}$

7) $-\frac{6}{6} \cdot \frac{-6 + \sqrt{4}}{3 + 1}$

8) $(-5) - ((-1) + 3) + 2 - 3 - 5$

Simplify each expression by distributing.

9) $10(7x - 5)$

10) $-8(8 + 9m)$

11) $x(x + 1)$

12) $-7(n - 6)$

Find the greatest common factor.

13) $70x - 50$

14) $-64 - 72m$

15) $x^2 + x$

16) $-7n + 42$

17) What would be the undistributed version of $2x-4$?

18) What would be the undistributed version of $6x+36$?

19) What process did you use to undistribute the problems above?

Undistribute the following expressions.

20) $22x-11$

21) $2x^2 - 3x$

22) $40x+8$

23) $30x^2 - 5x$

24) $14-2x$

25) $-7x-28$

What is a factor?

What is a greatest common factor?

What is a multiple?

What does it mean to factor?

What does it mean for a number to be prime?

In questions 20-25 box the factors and circle the multiples.

Use a factor tree to find the prime factorization of each number/expression.

26) 4

27) 5

28) 125

29) 24

30) 210

31) 500