Good Morning!

Remember that this is SILENT study hall. Ideas for what you can do:

- read

- study

- organize your binder

- work on homework

Sep 9-4:14 PM

Warm up 9.10.2015

1. $72 \div 9 + 7$
2. $48 \div (4 + 4)$
3. $40 \div 4 - (5 - 3)$
4. $9 + 9 + 6 - 5$
5. $(5 + 16) \div 7 - 2$

Sep 10-7:38 AM

Mental Math

This section provides an opportunity for sharpening students' mental computation.

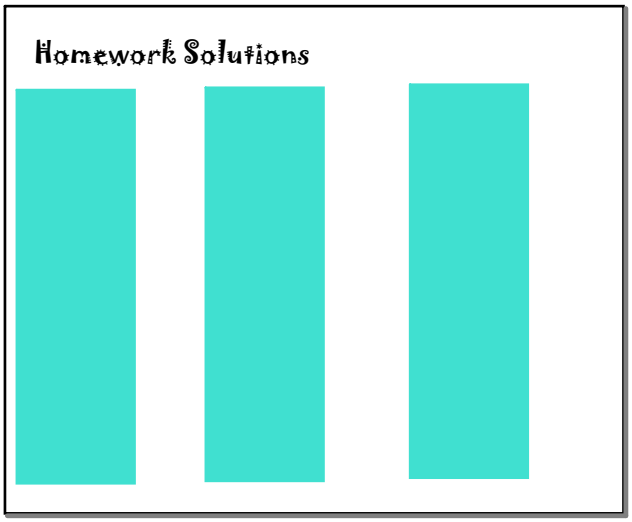
1. $(27 + 4) - (8 \times 3)$
2. $2^4 + 3^2$
3. $25 \times 10 \times \frac{1}{25}$
4. $\frac{\sqrt{4}}{\sqrt{81}}$
5. -100×-1
6. $\frac{3}{5} - \frac{3}{10}$
7. $15 \times 2 - 45$
8. $-4(2)$
9. 5 cm = _____ m
10. Estimate: What percent of 51 is 32?

NO CALCULATOR!!

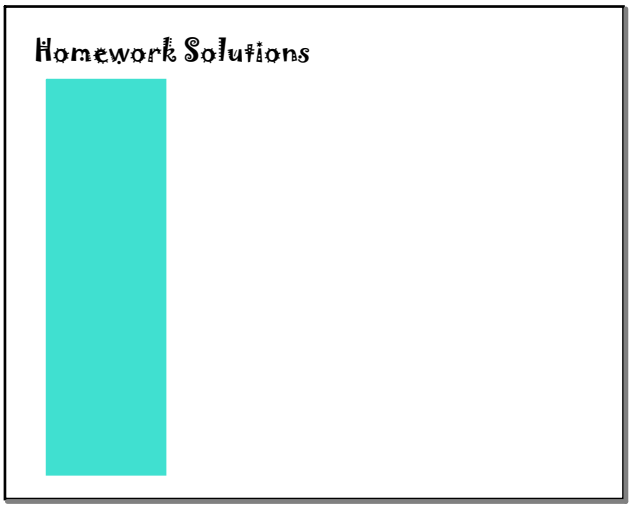
Mental Math

1. 7
2. 25
3. 10
4. $\frac{2}{9}$
5. 100
6. $\frac{3}{10}$
7. –15
8. –8
9. 0.05
10. 60%

Jan 2-12:34 PM



Sep 9-4:07 PM



Sep 9-4:07 PM

Accentuate the Negative
Investigation 4.1

BIG IDEA: Order of Operations

Feb 5-3:17 PM

Work with your group to come up with the biggest answer using the following numbers ONLY....

Sep 21-9:28 PM

Keep them in the same order!

-6 8 3 -10

Sep 22-7:25 AM

Keep them in the same order!

5 -8 2 -20

Sep 22-7:25 AM

Keep them in the same order!

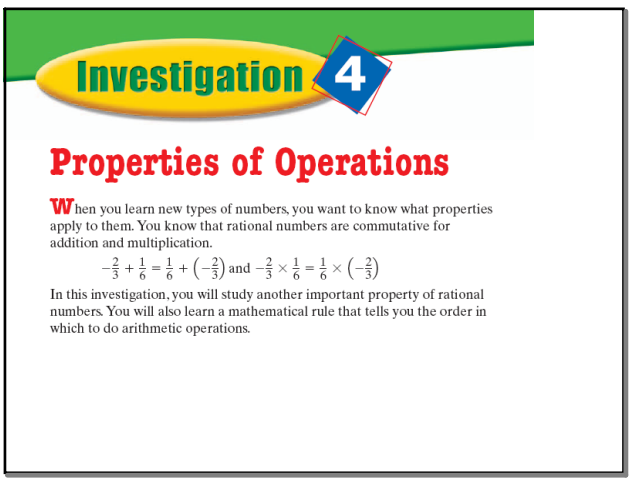
-4 -7 -6 -7

Sep 22-7:25 AM

Keep them in the same order!

8 0 12 -3

Sep 22-7:25 AM



Feb 5-3:18 PM

4.1 Order of Operations

Mathematicians have established rules called the **order of operations** in which to perform operations (+, −, ×, ÷). Why do you need such rules?

Feb 5-3:19 PM

Please

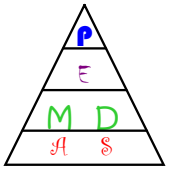
Excuse

My Dear

Aunt Sally

Feb 11-8:00 AM

8 - 1 - (18 - 2) ÷ 8

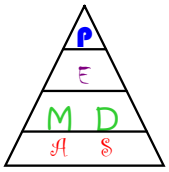


Sep 10-7:03 AM

$30 + 22 \div 11 - 7 - 3^2$

Sep 10-7:03 AM

$$8 \times \frac{15}{5} - (5 + 9)$$



Sep 10-7:03 AM

$$5 \cdot 3 - (-3)^3$$

Sep 10-7:11 AM

$$(-2)^3 - (-5)$$

Sep 10-7:11 AM

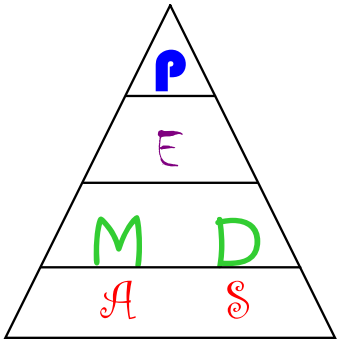
1. $3(4-7)-(-6)$

2. $7 \cdot 2 - 5 \cdot 3$

3. $10 \div 5 - (-2)^2$

Sep 10-7:11 AM

Right side page 6 in ISN



Sep 9-6:12 PM

Getting Ready for Problem 4.1

The rugby club orders 20 new jerseys. The manufacturer charges a $100 setup fee and $15 per shirt. The total cost is represented by the equation, $C = 100 + 15n$, where C is the cost in dollars and n is the number of jerseys ordered. Pedro and David calculate the amount the club owes.

Pedro's calculation: $C = 100 + 15 \times 20$
$= 100 + 300$
$= \$400$

David's calculation: $C = 100 + 15 \times 20$
$= 115 \times 20$
$= \$2{,}300$

- Who did the calculations correctly?

Feb 5-3:19 PM

Order of Operations

1. Compute any expressions within parentheses.

Example 1	Example 2
$(-7 - 2) + 1 =$	$(1 + 2) \times (-4) =$
$-9 + 1 = -8$	$3 \times (-4) = -12$

2. Compute any exponents.

Example 1	Example 2
$-2 + 3^2 =$	$6 - (-1 + 4)^2 =$
$-2 + 9 = 7$	$6 - (3)^2 = -3$

3. Multiply OR divide in order from left to right.

Example 1

$1 + 2 \times 4 =$ Multiplication first
$1 + 8 = 9$

Example 2

$200 \div 10 \times 2 =$ Division first
$20 \times 2 = 40$ Multiplication second

4. Add OR subtract in order from left to right.

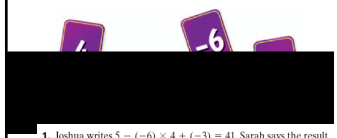
$1 + 2 - 3 \times 4 =$ Multiplication first
$1 + 2 - 12 =$ Addition and subtraction
$3 - 12 = -9$

Feb 5-3:20 PM

Use the order of operations in Problem 4.1.

Problem 4.1 Order of Operations

A. In a game, the goal is to write a number sentence that gives the greatest possible result using all the numbers on four cards. Jeremy draws the following four cards.



1. Joshua writes $5 - (-6) \times 4 + (-3) = 41$. Sarah says the result should be 26. Who is correct and why?

1st block - A,B,D

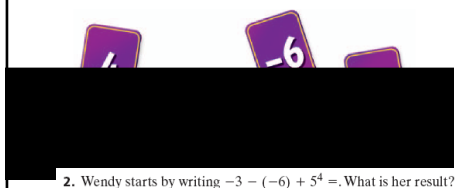
2nd/4th - Finish

Feb 5-3:20 PM

Use the order of operations in Problem 4.1.

Problem 4.1 Order of Operations

A. In a game, the goal is to write a number sentence that gives the greatest possible result using all the numbers on four cards. Jeremy draws the following four cards.



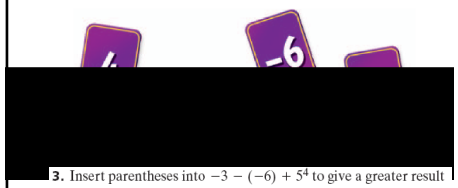
2. Wendy starts by writing $-3 - (-6) + 5^4 =$. What is her result?

Feb 5-3:20 PM

Use the order of operations in Problem 4.1.

Problem 4.1 Order of Operations

A. In a game, the goal is to write a number sentence that gives the greatest possible result using all the numbers on four cards. Jeremy draws the following four cards.



3. Insert parentheses into $-3 - (-6) + 5^4$ to give a greater result than in part (2).

$$-3 - (-6) + 5^4$$

Feb 5-3:20 PM

B. Find each value.

1. $-7 \times 4 + 8 \div 2$

2. $(3 + 2)^2 \times 6 - 1$

3. $2\frac{2}{5} \times 4\frac{1}{2} - 5^3 + 3$

4. $8 \times (4 - 5)^3 + 3$

5. $-8 \times [4 - (-5 + 3)]$

6. $-16 \div 8 \times 2^3 + (-7)$

B. 1. 2.

3. 4.

5. 6.

Feb 5-3:23 PM

C. Use parentheses, if needed, to make the greatest and least possible values.

1. $7 - 2 + 3^2$

2. $46 + 2.8 \times 7 - 2$

3. $25 \times (-3.12) + 21.3 \div 3$

4. $5.67 + 35.4 - 178 - 181$

Feb 5-3:24 PM

D. Use the order of operations to solve this problem. Show your work.

$3 + 4 \times 5 \div 2 \times 3 - 7^2 + 6 \div 3 =$

Feb 5-3:40 PM

Summary: Solve each of the following and explain WHY they have different answers.

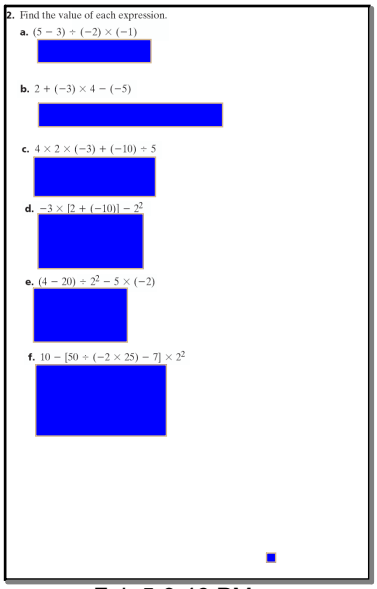
1. $2^2 + 7 \cdot (-3) - 5$
2. $(2^2 + 7) \cdot (-3) - 5$
3. $(2^2 + 7) \cdot (-3 - 5)$

Feb 5-3:17 PM

CMP PG. 69 - 70

#2 (ALL PARTS), 8-16

Sep 21-8:24 PM


2. Find the value of each expression.

a. $(5 - 3) \div (-2) \times (-1)$

b. $2 + (-3) \times 4 - (-5)$

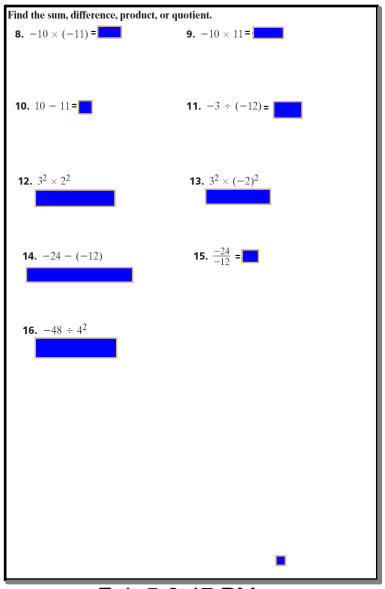
c. $4 \times 2 \times (-3) + (-10) \div 5$

d. $-3 \times [2 + (-10)] - 2^2$

e. $(4 - 20) \div 2^2 - 5 \times (-2)$

f. $10 - [50 \div (-2 \times 25) - 7] \times 2^2$

Feb 5-3:46 PM


Find the sum, difference, product, or quotient.

8. $-10 \times (-11) =$

9. $-10 \times 11 =$

10. $10 - 11 =$

11. $-3 \div (-12) =$

12. $3^2 \times 2^2$

13. $3^2 \times (-2)^2$

14. $-24 - (-12)$

15. $\frac{-24}{-12} =$

16. $-48 \div 4^2$

Feb 5-3:47 PM

HONORS

1. Finish and turn in "Fraction Attraction"
2. Go to **exittix.com** and complete assessment
3. Begin "Order of Operations?" worksheet (show all work). You may work with group.
4. Work on AtN pg. 69-70 #2, 8-16

Sep 9-6:20 PM