**NAME:**

Order of Operations

1. Parenthesis (Grouping)
2. Exponents
3. Multiply Divide (left to right)
4. Add Subtract (left to right)

**Use your guiding questions to answer the questions. Underline the question.**

**Place all information necessary in the work box from the question.**

 **Create a plan and show your work to solving the problem. Go back and make sure you answered the question and it makes sense. Solve the problems in the space provided on the right side of the paper. In the little box on the upper corner, mark a +, -, or? based on your understanding of the question.**

|  |  |
| --- | --- |
| 1.

Give a numerical example for each subset:1. Rational number
2. Irrational number
3. Integer
4. Whole Number
5. Natural Number
 |  |
| 1. Order the numbers from greatest to least. (In original format, show your work)

$$5.4x10^{-3} \frac{39}{707} 54\% 0.005$$ |  |
| 1. Find the value for the following problem sets(Show your work for full credit):
2. $4(2+4)^{2}$
3. $\frac{1}{2}(35-15)$
4. $(2^{2}+6)(2^{3}+1)$
5. $\frac{(46-12)}{2}$
 |  |
| 1.

Identify each **natural** number. Show your work.$ \frac{16}{3}$ $\sqrt{64}$ $3.2x10^{-2}$ $\frac{10}{5}$  |  |
| 1. Identify each number between $195\% and 9.6 x 10^{0}$

\*Hint: it helps to order them all on a number line and see which ones fall between 195% and $9.6 x 10^{0}$1.8 x $10^{1}$ $\frac{100}{50}$ 3.6 45% |  |
| 1. The 8th grade class has **450** students at Wacky Middle School.

$^{3}/\_{5}$ of the 8th grade class are going to go on a class trip. If it costs $38.50 a student, **how much will it cost for all the students who are going on the trip?** | Number of students going ont the trip and work to show how you got this number:Total cost for all the students going on the trip and how you got this price: |
| 1. Jordan bought a car for $4500 from Maggie. The day he bought it he paid her ½ the price of the car in cash. He agreed to pay the rest in equal payments for 6 months.

a)How much did Jordan pay in cash the day he bought the car?b) How much does he pay each month for 6 months to finish paying for the car? | The amount Jordan payed in cashthe day he bought the car (show your work):The amount Jordan pays each month to finish paying for the car (show your work): |