JUNIOR DIVISION

Category 1: Arithmetic Fractions

$$\frac{\left(\frac{1}{2} + \frac{1}{3}\right)^{\frac{1}{2}}}{5}$$
1. (2 pts)

1.

2. (3 pts) Take $\frac{1}{2}$ of $\frac{3}{4}$ and add another $\frac{3}{4}$ to that. Now divide that by $\frac{1}{8}$. How much do you have?

2. _____

$$\frac{1}{1 - \frac{1}{1 + 2}} - \frac{1}{\frac{1}{1 - 2} - 1}$$
3. (5 pts)

3. ____

JUNIOR DIVISION Category 2: Order of Operations

1. (2pts)
$$\frac{1}{2} - \left(\frac{1}{3} + \frac{1}{4}\right)$$

1.

2. (3 pts)
$$[6+5(4-1)-3(7-2)] \div 6$$

3. (5pts)
$$\frac{2}{3} \left[8 - (5-3)(6-3-1) \right] + \frac{1}{3} \left[(6 \div 3) + 3 \cdot 4 - 11 \right]$$

Name

School____

JUNIOR DIVISION Category 3: Percents and Decimals

1. (2pts)

Arrange these numbers from smallest to largest. Use the letters for your answer. 2. (3pts)

a) 100%

b) 63%

c) 0.6

d) 1.001 e) 0.5% f) $0.\overline{3}$

3. Joe (a used car dealer) bought a car for \$1000; he marked it up 25%, sold the car to his friend Jim who he gave a 10% discount. How much did Jim pay for the car?

| Names | School |
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| Category 4: Team | JUNIOR DIVISION n Word Problems (Pass in only one paper) |
| 1. (2pts) I am thinking of two num difference is 128. What a | nbers. The sum of the numbers is 184 and their re the numbers? |
| | 1. |
| | |
| 2. (3pts) It takes 50 minutes to cle long will it take to clean 6 mirrors v | an 6 rectangular windows which are 9 by 4 feet. How which are 9 by 4 feet rectangles? |
| | 2 |
| | |
| | |
| | |
| she paid the peddler 28 cents for the | nas and two oranges from a fruit peddler's cart. After e fruit, she changed her mind and exchanged an orange nother penny" said the peddler. Can you help Mary bananas? |
| | 3. cost of banana: |
| | cost of orange: |