JUNIOR DIVISION

Category 1: Signed Numbers

CALCULATORS NOT ALLOWED

1.
$$(2 \text{ pts})$$
 $-(-4+1)-(1-8)=$

1. _____

2. (3 pts)
$$2 \cdot (-4) - (10 \div (-1) + 10 \div 5 + (-8))$$

2. _____

3. (5 pts)
$$\frac{-2(5-8-(-3))}{-6} + \frac{1}{-3} - \frac{1}{-6} - \frac{-6}{6}$$

3.

Name

School

JUNIOR DIVISION Category 2: Statistics, Mean, Median Mode

1. (2pts) Using the list below which is the largest, the MEAN, the MEDIAN or the MODE?

18, 3, 8, 13, 8, 10, 11, 4

1._____

2. (3 pts) List five numbers that satisfy the following conditions: The mean is 75, the median is 80, and the modes are 60 and 80.

3. (5pts) Justin took four tests and his average score was 79%. What score does he need to get on his next test to bring his average test score up to 83%?

	3	%
Name	School	

JUNIOR DIVISION Category 3: Scientific Notation

CALCULATORS NOT ALLOWED

1. (2Pts.)	Simplify	(if necessary), then	convert to	Scien	tific N	Notation:
(,	~	(11 1100000001)	,,	••••••	~ • • • • • •		

A.
$$4,700 + 13,200$$

A.
$$123 \times 10^6$$

B.
$$850 \times 10^{-3}$$

C.
$$0.00107 \times 10^{-3}$$

3. (5Pts.) Find the value of
$$x$$
.

$$\frac{(8\times10^2)(5\times10^3)}{(2\times10^5)(2\times10^{-2})} \div 10^2 = 10^x$$

Names		pol
	JUNIOR DIVISION Category 4: Tear I, LCM, Divisibili	
CALCUI	LATORS NOT A Pass in only one paper	
1. (2Pts) What is the prime factorization	n of 792?	1
2. (3Pts) What is the least common mul	tiple of 6, 9, 10, and 2	21?
		2
3. (5 Pts) List all the prime numbers great	ater than 50 and less tha	an 100.
3.		