

MATH INVESTIGATION

1, 4, 8, 9

HOW TO INVESTIGATE:

1. WRITE MATH EXPRESSIONS THAT EQUAL THE NUMBERS FROM 1 TO 100
 - a. You have to use each number (1, 4, 8, and 9) once, and only once in each expression
 - b. You must use all 4 numbers (nothing else)
 - c. No 2-digit numbers
 - d. Any combination of math operations you know
 - e. Order of operations, exponents, square roots, factorials, summation etc.
2. WRITE A SMALL REPORT DESCRIBING HOW YOU ACCOMPLISHED YOUR TASK (REFLECTION)
 - a. Your plan
 - b. Your math strategies, give examples
 - c. Patterns you've found
 - d. Problems and how you overcame them
 - e. Your conclusions
 - f. Title Page
3. MARKING
 - a. 50% of your mark is from part 1. The other 50% from part 2.
 - b. To get a level 3, find 80 different expressions
 - c. To get a level 4, find 90+ expressions
 - d. You are allowed to have a maximum of 10 duplicates (e.g. two difference expressions that both equal 33)
4. SHOWING YOUR WORK
 - a. You have to show all of your work for each question on attached graph paper.
(Not just the answer)
 - b. You are allowed to use a calculator and ask for help.
5. DUE DATE: _____

1.	26.	51.	76.
2.	27.	52.	77.
3.	28.	53.	78.
4.	29.	54.	79.
5.	30.	55.	80.
6.	31.	56.	81.
7.	32.	57.	82.
8.	33.	58.	83.
9.	34.	59.	84.
10.	35.	60.	85.
11.	36.	61.	86.
12.	37.	62.	87.
13.	38.	63.	88.
14.	39.	64.	89.
15.	40.	65.	90.
16.	41.	66.	91.
17.	42.	67.	92.
18.	43.	68.	93.
19.	44.	69.	94.
20.	45.	70.	95.
21.	46.	71.	96.
22.	47.	72.	97.
23.	48.	73.	98.
24.	49.	74.	99.
25.	50.	75.	100.