INFORMAL MATH PROBES – GRADE 5

_____ can correctly

NUMERATION:
- Read numbers from .001 to 1 billion in _____/5 attempts.
- Write numbers from .001 to 1 billion in _____/5 attempts.

SUBTRACTION:
- Subtract 3 digits from 3 digits with regrouping in ____/5 problems.

MULTIPLICATION:
- Multiply facts with ____% accuracy, _____ (number) problems completed in one minute.
- Multiply 3-digit by 1-digit numbers in _____/5 problems.
- Multiply 3-digit by 2-digit numbers in _____/5 problems.
- Square numbers 1-12 in ____/5 problems

DIVISION:
- Divide 3-digit by 1-digit with remainders in ____/5 problems.
- Divide 3 digits by 2 digits with remainders in ____/5 problems.

DECIMALS:
- Multiply decimals by natural numbers 1-9 in ____/5 problems
- Divide decimals by natural numbers 1-9 in ____/5 problems

FRACTIONS: (LCD-Lowest Common Denominator)
- Write ____/5 fractions in lowest terms.
- Add fractions when LCD is included in ____/5 problems.
- Add fractions when LCD is not included in ____/5 problems.
- Subtract fractions when LCD is included in ____/5 problems.
- Subtract fractions when LCD is not included in ____/5 problems.

WORD PROBLEMS:
- Solve fifth grade word problems. ____/5

CLASSROOM WORK:
- Daily assignments done with an average of ____% accuracy.
- Chapter test scores range from ____% to ____% accuracy.

INFORMAL MATH PROBES – GRADE 5

Name: _____ Date: _____

NUMERATION:
Read numbers .001 through 1 billion:

1,739,451,276 0.025 1,107,251,602 122,620,015 0.135

/5

Write numbers .001 through 1 billion:

_____ _____ _____ _____ _____

/5

SUBTRACTION:
Subtract 3 digits from 3 digits with regrouping:

a. 600	b. 700	c. 900	d. 500	e. 300
- 326	- 485	- 671	- 218	- 149

MULTIPLICATION:
Multiply 3-digit by 1-digit numbers:

a. 234	b. 376	c. 185	d. 478	e. 167
x 4	x 2	x 3	x 2	x 4

Multiply 3-digit number by 2-digit number

a. 486	b. 493	c. 786	d. 639	e. 793
x 35	x 65	x 94	x 87	x 59

Square the following numbers:

2	12	9	10	7
_____	_____	_____	_____	_____

Multiplication Facts

Name: _____

Time: _____ No. Correct: ____/100

8	5	2	3	5	7	9	2	4	6
x 9	x 5	x 2	x 4	x4	x 6	x 1	x10	x 3	x17
5	6	3	3	2	11	5	3	2	6
x 5	x 11	x 4	x 1	x 3	x 0	x 8	x 0	x 1	x 8
5	4	12	10	9	23	2	34	50	11
x 12	x 8	x 5	x 1	x 0	x 8	x 2	x 5	x 6	x 9
3	9	18	47	4	31	2	9	8	7
x 7	x 7	x 1	x 3	x 3	x 5	x 4	x 5	x 4	x 1
5	49	38	22	1	8	17	6	44	26
x19	x 3	x 2	x 9	x 2	x 10	x 6	x 6	x 2	x 3
18	43	31	48	26	18	25	41	18	27
x 8	x 6	x 7	x 3	x 9	x 7	x 6	x 6	x 9	x 5
33	41	49	27	13	29	47	37	26	15
x 3	x 3	x 4	x 8	x 5	x 8	x 7	x 2	x 0	x 1
25	27	15	34	42	29	18	26	45	39
x 7	x 4	x 0	x 9	x 8	x 9	x 6	x 4	x 3	x 2
49	47	26	35	11	44	27	36	14	42
x 1	x 0	x 2	x 5	x 4	x 6	x 9	x 7	x 4	x 0
28	24	38	17	42	14	39	13	32	24
x 7	x 7	x 8	x 8	x 7	x 8	x 9	x 9	x 7	x 1

DIVISION

Divide 3-digits by 1-digit with remainders:

4) 291	3) 265	5) 463	8) 299	2) 137

Divide 3-digits by 2-digits with remainders:

42) 293	81) 674	38) 230	79) 524	84) 427

DECIMALS:

Multiply decimals by natural numbers 1-9:

.042 x 2 = .5 x 6 = .25 x 8 = .333 x 9 = .04 x 1 =

Divide decimals by natural numbers 1-9:

.5 ÷ 2 = .025 ÷ 1 = .623 ÷ 5 = .75 ÷ 9 = .133 ÷ 4 =

FRACTIONS

Write in the lowest terms:

$\frac{5}{10}$ = $\frac{6}{8}$ = $\frac{4}{16}$ = $\frac{3}{18}$ = $\frac{2}{12}$ =

Adding and Subtracting Fractions

Add fractions with Lowest Common Denominator included:

$\frac{1}{4} + \frac{2}{4}$	$\frac{1}{12} + \frac{10}{12}$	$\frac{3}{10} + \frac{5}{10}$	$\frac{3}{14} + \frac{4}{14}$	$\frac{4}{15} + \frac{3}{15}$

Add fractions without Lowest Common Denominator provided:

$\frac{3}{16} + \frac{2}{10}$	$\frac{4}{15} + \frac{3}{9}$	$\frac{1}{18} + \frac{2}{12}$	$\frac{3}{4} + \frac{5}{6}$	$\frac{5}{16} + \frac{2}{6}$

Subtract fractions with Lowest Common Denominator included:

$\frac{8}{9} - \frac{3}{9}$	$\frac{7}{10} - \frac{5}{10}$	$\frac{9}{12} - \frac{4}{12}$	$\frac{11}{15} - \frac{7}{15}$	$\frac{6}{11} - \frac{3}{11}$

Subtract fractions without Lowest Common Denominator provided

$\frac{3}{5} - \frac{1}{3}$	$\frac{1}{2} - \frac{2}{5}$	$\frac{3}{4} - \frac{5}{9}$	$\frac{1}{2} - \frac{2}{13}$	$\frac{5}{6} - \frac{1}{5}$

Problem Solving

1. The Tasty Tea Company produced 6,792 tea bags one day. If they put 24 tea bags in each box, how many boxes do they need? _____

2. One truck has 854 cartons of tea to deliver. Another has 783 cartons. How many cartons are to be Delivered in all? _____

3. There are 2,772 boxes of tea ready to be put into cartons. If there are 12 boxes in a carton, how many cartons are needed? _____

4. 12 stores ordered a total of 6,300 boxes of tea. If each store ordered the same number of boxes, how many boxes does each receive? _____

5. A Tasty Tea delivery truck traveled 634 miles one week and 586 miles another week. How much farther did it travel the first week? _____