INFORMAL MATH PROBES – GRADE 4

_____ can correctly

NUMERATION & PLACE VALUE:
- Read numbers from .01 to 1 million in _____/5 attempts.
- Write numbers from .01 to 1 million in _____/5 attempts.
- Round whole numbers to the nearest thousand in _____/5 attempts.

ADDITION & SUBTRACTION:
- Add three columns of 5 numbers in _____/5 attempts.
- Subtract 4-digit numbers with 0s in the tens and hundreds place in ____/5 attempts.
- Add decimals with the same number of places. ____/5 attempts
- Subtract decimals with the same number of places. ____/5 attempts
- Estimate sums by rounding to the nearest 10 in ____/5 attempts.
- Estimate differences rounding to the nearest hundred in _____/5 attempts.

MULTIPLICATION:
- Multiplication facts (0-12) with ____% accuracy, _____ (number) problems completed in one minute.
- Multiply a 3-digit number by a 1-digit number in _____/5 attempts.
- Multiply a 2-digit number by a 2-digit number in ____/5 attempts.
- Multiply a 3-digit number by a 2-digit number in _____/5 attempts.

DIVISION:
- Division facts with ____% accuracy, _____ (number) problems completed in one minute.
- Divide a 2-digit number by a 1-digit number. _____/5 attempts
- Divide a 3-digit number by a 1-digit number. _____/5 attempts

PROBLEM SOLVING:
- Solve 4th grade word problems. _____/5

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

Name _____ Date _____

<u>NUMERATION & PLACE VALUE:</u>
Read numbers from .01 to 1 million:

     .5   115,609   975,254   .75   698,001

_____/5 attempts

Write numbers from .01 to 1 million:

_____   _____   _____   _____   _____

_____/5 attempts

Round numbers to the nearest thousandth:
     6,742   41,256   80,054   10,942   61,545

_____   _____   _____   _____   _____

_____/5 attempts

<u>ADDITION & SUBTRACTION:</u>

638	217	418	167	822
125	609	117	275	342
812	843	212	317	554
690	701	376	254	822
+123	+245	+532	+256	+372

_____/5 attempts

5403	2006	8003	6103	3005
- 1289	- 1127	- 3526	- 2315	- 1259

_____/5 attempts

Add decimals with the same number of places:

.25	.5	.435	.03	.72
+ .26	+.7	+.102	+.25	+.53

_____/5 attempts

Subtract decimals with the same number of places:

.5	.752	.023	.25	.3
- .2	- .431	- .011	- .15	- .2

_____/5 attempts

ESTIMATION:
Estimate sums by rounding to nearest ten.

69	=	_____
+ 22	=	_____

66	=	_____
+47	=	_____

$37.52	=	_____
+ $22.89	=	_____

$126.35	=	_____
+$142.66	=	_____

$12.76	=	_____
+$15.02	=	_____

_____/5

Estimate differences rounding to the nearest hundred:

542	=	_____
- 167	=	_____

782	=	_____
- 276	=	_____

921	=	_____
- 680	=	_____

$ 263.54	=	_____
- $167.05	=	_____

$725.89	=	_____
- $422.35	=	_____

_____/5

MULTIPLICATION:

Multiply a 3-digit number by a 1-digit number:

267	173	485	196	247
x 3	x 4	x 2	x 4	x 3

/5

Multiply a 2-digit number by a 2-digit number:

39	46	95	84	73
x 67	x 58	x 27	x 36	x 49

/5

Multiply a 3-digit number by a 2-digit number:

604	703	807	508	901
x 25	x 68	x 42	x 34	x 78

/5

DIVISION:

Divide a 2-digit number by a 1-digit number:

3) 57   4) 72   5) 85   3) 75   2) 54

/5

Divide a 3-digit number by a 1-digit number

3) 246   4) 128   5) 205   6) 426   7) 567

Multiplication Facts

0-9

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	x 0	x 3	x 7

5	6	3	3	2	11	5	3	2	6
x 5	x 1	x 4	x 1	x 3	x 0	x 8	x 0	x 1	x 8

5	4	2	1	9	3	2	4	2	1
x 2	x 8	x 5	x 1	x 0	x 8	x 2	x 5	x 6	x 9

3	11	8	7	4	10	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	12	8	2	1	8	7	6	4	6
x 9	x 3	x 2	x 9	x 2	x 0	x 6	x 6	x 2	x 3

8	3	12	8	6	8	5	12	8	7
x 8	x 6	x 7	x 3	x 9	x 7	x 6	x 6	x 9	x 5

3	10	9	7	3	9	7	7	12	5
x 3	x 3	x 4	x 8	x 5	x 8	x 7	x 2	x 0	x 1

5	7	5	4	2	9	8	6	5	9
x 7	x 4	x 0	x 9	x 8	x 9	x 6	x 4	x 3	x 2

9	7	6	5	12	4	7	6	4	2
x 1	x 0	x 2	x 5	x 4	x 6	x 9	x 7	x 4	x 0

8	4	8	7	12	4	10	3	2	4
x 7	x 7	x 8	x 8	x 7	x 8	x 9	x 9	x 7	x 1

NAME: _____ DATE:_____

DIVISION FACTS

9)72	7) 42	8) 24	2) 10
4) 4	3) 9	4) 36	1) 8
7) 14	6) 0	7) 21	9) 54
7) 0	8) 16	9) 9	6) 48
8) 56	7) 35	9) 0	6) 30
7) 63	8) 8	9) 45	6) 6
8) 32	5) 20	1) 4	2) 12
5) 35	4) 8	5) 25	1) 5
2) 16	3) 21	4) 12	5) 40
3) 24	1) 6	4) 24	5) 30

NAME: _____

DATE:_____

STORY PROBLEMS – GRADE 4

1. The family drank 18 liters of milk one week.
   They drank 7 liters the next week.
   How many liters did they drink in all? _____

2. There were twenty-one desks in the math class.
   Twenty-seven students came to the class.
   How many more desks were needed to seat the students? _____

3. Wilbur received $ .45 for mowing the lawn and $ .85 for painting the
   dog house. How much did he earn? _____
   How much more does he need to buy a toy truck which costs $2.85?
   _____

4. The Red Sox scored 18 runs in 6 innings.
   If they scored the same number of runs in each inning, how many runs
   did they make in each inning? _____

5. In basketball, 5 fouls and you're out of the game. Four players were
   out on fouls. How many fouls were made by these players?
   _____