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 3 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 at rate of _____facts in _____minutes, _____ seconds.
- 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 at a rate of _____ facts in ____ minutes.
- 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 _____/5 4^{th} grade word problems.

CLASSROOM WORK:

- Daily assignments done with ____% accuracy.
- Chapter test scores range from ____% to ____ % accuracy.

Name _____ Date _____

NUMERATION & PLACE VALUE:

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

ADDITION & SUBTRACTION:

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
2388	2615	1655	1269	2912

/5 attempts

5403	2006	8003	6103	3005	
- 1289	- 1127	- 3526	- 2315	- 1259	
4114	879	4477	3788	1746	/5 attempts

Add decimals with the same number of places:

.25	.5	.435	.03	.72	
+ .26	+.7	+.102	+.25	+.53	
0.51	1.2	0.537	0.28	1.25	/5 attempts

Subtract decimals with the same number of places:

.5	.752	.023	.25	.3	
- .2	- .431	- .011	- .15	- .2	
0.3	0.321	0.012	0.10	0.1	/5 attempts

ESTIMATION:

Estimate sums by rounding to nearest ten.

69	=	70	66	=	70
+ 22	=	20	+47	=	50
		90			120

$37.52	=	38.00	$126.35	=	126.00
+ $22.89	=	23.00	+$142.66	=	143.00
		$61.00			$269.00

$12.76	=	13.00
+$15.02	=	15.00
		$28.00

_____/5

Estimate differences rounding to the nearest hundred:

542	=	500	782	=	800	921	=	900
- 167	=	200	- 276	=	300	- 680	=	700
		300			500			200

$ 263.54	=	300.00	$725.89	=	700.00
- $167.05	=	200.00	- $422.35	=	400.00
		$100.00			$300.00

_____/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
801	692	970	784	741

/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
2613	2668	2565	3024	3577

/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
15,100	47,804	33,894	17,272	70,278

/5

DIVISION:

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

19	18	17	25	27
3) 57	4) 72	5) 85	3) 75	2) 54

/5

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

82	32	41	71	81
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
72	25	4	12	20	42	9	0	12	42
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
25	6	12	3	6	0	40	0	2	48
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
10	32	10	1	0	24	4	20	12	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
21	77	8	21	12	50	8	45	32	7
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
45	36	16	18	2	0	42	36	8	18
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
64	18	84	24	54	56	30	72	72	35
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
9	30	36	56	15	72	49	14	0	5
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
35	28	0	36	16	81	48	24	15	18
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
9	0	12	25	48	24	63	42	16	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
56	28	64	56	84	32	90	27	14	4

NAME: _____ DATE:_____

DIVISION FACTS

8 9)72	6 7) 42	3 8) 24	5 2) 10
1 4) 4	3 3) 9	9 4) 36	8 1) 8
2 7) 14	0 6) 0	3 7) 21	6 9) 54
0 7) 0	2 8) 16	1 9) 9	8 6) 48
7 8) 56	5 7) 35	0 9) 0	5 6) 30
9 7) 63	1 8) 8	5 9) 45	1 6) 6
4 8) 32	4 5) 20	4 1) 4	6 2) 12
7 5) 35	2 4) 8	5 5) 25	5 1) 5
8 2) 16	7 3) 21	3 4) 12	8 5) 40
8 3) 24	6 1) 6	6 4) 24	6 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? _They drank 25 liters 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? __6 desks__

3. Wilbur received $ .45 for mowing the lawn and $ .85 for painting the dog house. How much did he earn? _$1.30_____
   How much more does he need to buy a toy truck which costs $2.85?
   __$1.55_____

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? _3 runs 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? _20 fouls were made.___