# 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 \_\_\_\_\_facts
- 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  $\frac{1}{5} 4^{\text{th}}$  grade word problems.

#### CLASSROOM WORK:

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

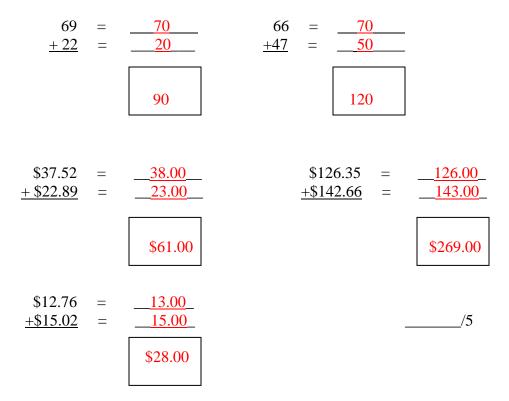
Name				Date		
		PLACE VALUE 01 to 1 million:				
	.5	115,609	975,254	.75	698,00	)1
	/5 atte	empts				
Write	numbers from	.01 to 1 million	::			
	/5 atten	npts				
Round		e nearest thousa 41,256		10,942	61,545	5
	/5 atten	npts				
ADDľ	TION & SUBT	<b>FRACTION:</b>				
638	217	418	167	822	2	
125	609	117	275			
812	843	212	317			
690	701	376				
+123	+245	+532	+256	+372		
2388	2615	1655	1269	2912		
						/5 attempts
	5403	2006	8003	6103	3005	
			- <u>3526</u>	- <u>2315</u>	- <u>1259</u>	
	4114	879	4477	3788	1746	/5 attempts
Add decimals with the same number of places:						
			-			
.25	.5	.435		.72		
$\frac{+.26}{0.51}$	$\frac{+.7}{1.2}$	+.102	$\frac{+.25}{0.28}$	$\frac{+.53}{1.25}$		/ <b>F</b> att
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	
<u>2</u>	431	<u>011</u>	<u>15</u>	2	
0.3	0.321	0.012	0.10	0.1	/5 attempts

## **ESTIMATION:**

Estimate sums by rounding to nearest ten.



Estimate differences rounding to the nearest hundred:

542 = - <u>167</u> =		782 = - <u>276</u> =	<u>800</u> <u>300</u>	921 = 680 =	<u>900</u> 700
	300		500		200
		_			
	$= _{200.00}$	\$725.89 = - $$422.35 =$	<u>700.00</u> <u>400.00</u>		
	\$100.00		\$300.00		

/5

MULTIPLICA Multiply a 3-di 267 <u>x 3</u> 801	ATION: igit number by a 1-di 173 <u>x 4</u> 692	igit number: 485 <u>x 2</u> 970	196 <u>x 4</u> 784	247 <u>x 3</u> 741 /5
Multiply a 2-di	igit number by a 2-di	igit number:		
39	46	95	84	73
<u>x 67</u>	<u>x 58</u>	<u>x 27</u>	<u>x 36</u>	<u>x 49</u>
2613	2668	2565	3024	3577
				/5
Multiply a 3-di	igit number by a 2-di	igit number:		
604	703	807	508	901
<u>x 25</u>	<u>x 68</u>	<u>x 42</u>	<u>x 34</u>	<u>x 78</u>
15,100	47,804	33,894	17,272	70,278
				/5

**<u>DIVISION:</u>** Divide a 2-digit number by a 1-digit number:

_19_	_ <u>18</u>	_ <u>17</u>	_25	_27
3)57	4)72	5)85	3)75	2)54

/5

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

<u>82</u>	32	<u>41</u>	<u>71</u>	<u>81</u>
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
<u>x 9</u>	<u>x 5</u>	<u>x 2</u>	<u>x 4</u>	<u>x4</u>	<u>x 6</u>	<u>x 1</u>	<u>x 0</u>	<u>x 3</u>	<u>x 7</u>
72	25	4	12	20	42	9	0	12	42
5	6	3	3	2	11	5	3	2	6
<u>x 5</u>	<u>x 1</u>	<u>x 4</u>	<u>x 1</u>	<u>x 3</u>	<u>x 0</u>	<u>x 8</u>	<u>x 0</u>	<u>x 1</u>	<u>x 8</u>
25	6	12	3	6	0	40	0	2	48
5	4	2	1	9	3	2	4	2	1
<u>x 2</u>	<u>x 8</u>	<u>x 5</u>	<u>x 1</u>	<u>x 0</u>	<u>x 8</u>	<u>x 2</u>	<u>x 5</u>	<u>x 6</u>	<u>x 9</u>
10	32	10	1	0	24	4	20	12	9
3	11	8	7	4	10	2	9	8	7
<u>x 7</u>	<u>x 7</u>	<u>x 1</u>	<u>x 3</u>	<u>x 3</u>	<u>x 5</u>	<u>x 4</u>	<u>x 5</u>	<u>x 4</u>	<u>x 1</u>
21	77	8	21	12	50	8	45	32	7
5	12	8	2	1	8	7	6	4	6
<u>x 9</u>	<u>x 3</u>	$\underline{x 2}$	$\frac{x9}{10}$	<u>x 2</u>	<u>x 0</u>	<u>x 6</u>	<u>x 6</u>	<u>x 2</u>	<u>x 3</u>
45	36	16	18	2	0	42	36	8	18
8	3	12	8	6	8	5	12	8	7
<u>x 8</u>	<u>x 6</u>	<u>x 7</u>	$\frac{x 3}{24}$	$\frac{x 9}{54}$	<u>x 7</u>	<u>x 6</u>	<u>x 6</u>	<u>x 9</u>	<u>x 5</u>
64	18	84	24	54	56	30	72	72	35
3	10	9	7	3	9	7	7	12	5
<u>x 3</u> 9	<u>x 3</u> 30	<u>x 4</u> 36	<u>x 8</u> 56	<u>x 5</u> 15	<u>x 8</u> 72	<u>x 7</u> 49	<u>x 2</u> 14	<u>x 0</u> 0	<u>x 1</u> 5
5 v 7	7 v 1	5 x 0	4 v 0	2 <u>x 8</u>	9 v 0	8 v 6	6 v 4	5 v 3	9 <u>x 2</u>
<u>x 7</u> 35	<u>x 4</u> 28	<u>x 0</u> 0	<u>x 9</u> 36	<u>x o</u> 16	<u>x 9</u> 81	<u>x 6</u> 48	<u>x 4</u> 24	<u>x 3</u> 15	$\frac{X \ Z}{18}$
9	20 7	6	5	10	4	<b>40</b> 7	6	4	2
<u>x 1</u>	<u>x 0</u>	<u>x 2</u>	<u>x 5</u>	<u>x 4</u>	4 <u>x 6</u>	<u>x 9</u>	<u>x 7</u>	<u>4</u> <u>x 4</u>	<u>x 0</u>
<u>× 1</u> 9	$\frac{\mathbf{X}0}{0}$	$\frac{\underline{X} \underline{Z}}{12}$	$\frac{x}{25}$	$\frac{\Lambda}{48}$	$\frac{x \cdot 0}{24}$	<u>63</u>	$\frac{X}{42}$	<u>16</u>	$\frac{\mathbf{x} 0}{0}$
8	4	8	<u></u> 7	12	4	10	3	2	4
<u>x 7</u>	<u>x 7</u>	<u>x 8</u>	<u>x 8</u>	<u>x 7</u>	x 8	<u>x 9</u>		<u>x 7</u>	<u>x 1</u>
56	28	64	56	84	<u>x 8</u> 32	90	<u>x 9</u> 27	14	4

	DIVISI	ON FACTS	
9 )72	7)42	<u>3</u> 8)24	<u>5</u> 2)10
4)4	3)9	<u>9</u> 4)36	1)8
7)14	6)0	7)21	9)54
7)0	8) <u>16</u>	9)9	 6 ) 48
8)56	7)35	9)0	<u>5</u> 6) 30
<mark>9</mark> 7)63	<u>1</u> 8)8	9)45	_ <u>1_</u> 6)6
8) <u>4</u> 8) <u>32</u>	<u>4</u> 5) 20	 1)4	2)12
5)35	4) <u>8</u>	5)25	_ <u>5</u> 1)5
2)16	3)21	4)12	5)40
<u>8</u> 3)24	_ <u>6</u> 1)6	4)24	5) 30

NAME:	
DATE:	

### STORY PROBLEMS – GRADE 4

- The family drank 18 liters of milk one week. They drank 7 liters the next week. How many liters did they drink in all? <u>They drank 25 liters in all.</u>
- 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? <u>6 desks</u>
- 3. Wilbur received \$ .45 for mowing the lawn and \$ .85 for painting the dog house. How much did he earn? <u>\$1.30</u>
  How much more does he need to buy a toy truck which costs \$2.85?
  <u>\$1.55</u>
- 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? <u>3 runs in each inning</u>.
- 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? <u>20 fouls</u> were made.