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 50 factsminutes,seconds with% accuracy 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/5 fifth grade word problems.
CLASSROOM WORK:
Daily assignments done with% 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: ___0.135___ 122,620,015__ 1,107,251,602 1,739,451,276_ /5 SUBTRACTION: Subtract 3 digits from 3 digits with regrouping: a. 600 b. 700 c. 900 d. 500 e. 300 <u>- 6</u>71 - 326 - 485 - 218 - 149 274 215 229 282 151 MULTIPLICATION: Multiply 3-digit by 1-digit numbers: a. 234 b. 376 d. 478 c. 185 e. 167 668 Multiply 3-digit number by 2-digit number e. 793 a. 486 b. 493 c. 786 d. 639 <u>x 35</u> x 65 <u>x 94</u> <u>x 87</u> <u>x 59</u> 17,010 32,045 73,884 55,593 46,787 Square the following numbers: 2 9 10 7 12 4 144 81 100 49

Multiplication Facts

Name:	0								
Time:									
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>x10</u>	<u>x 3</u>	<u>x17</u>
72	25	4	12	20	42	9	20	12	102
5	6	3	3	2	11	5	3	2	6
<u>x 5</u>	<u>x 11</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	66	12	3	6	0	40	0	2	48
5	4	12	10	9	23	2	34	50	11
<u>x 12</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>
60	32	60	10	0	184	4	170	300	99
3	9	18	47	4	31	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	63	18	141	12	155	8	45	32	7
5	49	38	22	1	8	17	6	44	26
<u>x19</u>	<u>x 3</u>	<u>x 2</u>	<u>x 9</u>	<u>x 2</u>	<u>x 10</u>	<u>x 6</u>	<u>x 6</u>	<u>x 2</u>	<u>x 3</u>
95	147	76	198	2	80	102	36	88	78
18	43	31	48	26	18	25	41	18	27
<u>x 8</u>	<u>x 6</u>	<u>x 7</u>	<u>x 3</u>	<u>x 9</u>	<u>x 7</u>	<u>x 6</u>	<u>x 6</u>	<u>x 9</u>	<u>x 5</u>
144	258	217	144	234	126	150	246	162	135
33	41	49	27	13	29	47	37	26	15
<u>x 3</u>	<u>x 3</u>	<u>x 4</u>	<u>x 8</u>	<u>x 5</u>	<u>x 8</u>	<u>x 7</u>	<u>x 2</u>	<u>x 0</u>	<u>x 1</u>
99	123	196	216	65	232	329	74	0	15
25	27	15	34	42	29	18	26	45	39
<u>x 7</u>	<u>x 4</u>	<u>x 0</u>	<u>x 9</u>	<u>x 8</u>	<u>x 9</u>	<u>x 6</u>	<u>x 4</u>	<u>x 3</u> 135	<u>x 2</u> 78
175	108	0	306	336	261	108	104		78
49	47	26	35	11	44	27	36	14	42
<u>x 1</u>	<u>x 0</u>	<u>x 2</u> 52	<u>x 5</u>	<u>x 4</u> 44	<u>x 6</u> 264	<u>x 9</u>	<u>x 7</u>	<u>x 4</u> 56	$\frac{\times 0}{0}$
49	0		175			243	252		
28	24	38	17	42	14	39	13	32	24
<u>x 7</u>	<u>x 7</u>	<u>x 8</u>	<u>x 8</u>	<u>x 7</u>	<u>x 8</u>	<u>x 9</u>	<u>x 9</u>	<u>x 7</u> 224	$\frac{x}{24}$
196	168	304	136	294	112	351	117	224	24

DIVISION

Divide 3-digits by 1-digit with remainders:

Divide 3-digits by 2-digits with remainders:

<u>6 r41</u>	<u>8 r 26</u>	<u>6 r 2</u>	<u>6 r 50</u>	<u>5 r 7</u>
42) 293	81) 674	38)230	79) 524	84) 427

DECIMALS:

Multiply decimals by natural numbers 1-9:

$$.042 \times 2 = 0.184$$
 $.5 \times 6 = 3$ $.25 \times 8 = 2$ $.333 \times 9 = 2.997$ $.04 \times 1 = 0.04$

Divide decimals by natural numbers 1-9:

$$.5 \div 2 = 0.25$$
 $.025 \div 1 = 0.025$ $.623 \div 5 = 0.1246$ $.75 \div 9 = 0.083$ $.133 \div 4 = 0.033$

FRACTIONS

Write in the lowest terms:

$$\frac{5}{10}$$
 = $\frac{1}{2}$ $\frac{6}{8}$ = $\frac{3}{4}$ $\frac{4}{16}$ = $\frac{1}{4}$ $\frac{3}{18}$ = $\frac{1}{6}$ $\frac{2}{12}$ = $\frac{1}{6}$

Adding and Subtracting Fractions

Add fractions with Lowest Common Denominator included:

1100 1100 1101	That mattering with 20 west common penormator metadea.							
1 4	<u>1</u> 12	<u>3</u> 10	<u>3</u> 14	<u>4</u> 15				
$\frac{2}{+4}$	10 + 12 11/12	$\frac{5}{+10}$	$\frac{4}{+14}$	$\frac{3}{+\ 15}$ 7/15				

Add fractions without Lowest Common Denominator provided:

Add Hactions with	Add fractions without Lowest Common Denominator provided.							
<u>3</u>	<u>4</u>	<u>1</u>	<u>3</u>	<u>5</u>				
16	15	18	4	16				
2	3	2	5	2				
<u>+ 10</u>	<u>+ 9</u>	<u>+ 12</u>	<u>+ 6</u>	<u>+ 6</u>				
1/4	3/5	2/9	1 1/4	31/48				

Subtract fractions with Lowest Common Denominator included:

Subtract fractions with Lowest Common Denominator included.						
<u>8</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>6</u>		
9	10	12	15	11		
<u>3</u>	<u>5</u>	<u>4</u>	<u>7</u>	<u>3</u>		
<u>- 9</u>	<u>- 10</u>	<u> </u>	<u>- 15</u>	<u>- 11</u>		
5/9	1/5	5/12	4/15	3/11		

Subtract fractions without Lowest Common Denominator provided

Subtract Tractions	Willout Lowest Co		i provided	
<u>3</u>	<u>1</u>	<u>3</u>	<u>1</u>	<u>5</u>
5	2	4	2	6
<u>1</u>	<u>2</u>	<u>5</u>	<u>2</u>	<u>1</u>
<u>- 3</u>	<u>- 5</u>	<u>- 9</u>	<u> </u>	<u>- 5</u>
4/15	1/10	7/36	9/26	19/30

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?

They need 283 boxes

- One truck has 854 cartons of tea to deliver. Another has 783 cartons.
 How many cartons are to be Delivered in all?
 1,637 cartons will 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?

231 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?

Each receives 525 boxes.

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?

48 more miles the first week