

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:

$$\begin{array}{r} \text{a. } 600 \\ - 326 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b. } 700 \\ - 485 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c. } 900 \\ - 671 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d. } 500 \\ - 218 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e. } 300 \\ - 149 \\ \hline \end{array}$$

MULTIPLICATION:

Multiply 3-digit by 1-digit numbers:

$$\begin{array}{r} \text{a. } 234 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b. } 376 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c. } 185 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d. } 478 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e. } 167 \\ \times 4 \\ \hline \end{array}$$

Multiply 3-digit number by 2-digit number

$$\begin{array}{r} \text{a. } 486 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b. } 493 \\ \times 65 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c. } 786 \\ \times 94 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d. } 639 \\ \times 87 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e. } 793 \\ \times 59 \\ \hline \end{array}$$

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
<u>x 9</u>	<u>x 5</u>	<u>x 2</u>	<u>x 4</u>	<u>x 4</u>	<u>x 6</u>	<u>x 1</u>	<u>x 10</u>	<u>x 3</u>	<u>x 17</u>

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>

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>

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>

5	49	38	22	1	8	17	6	44	26
<u>x 19</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>

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>

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>

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>	<u>x 2</u>

49	47	26	35	11	44	27	36	14	42
<u>x 1</u>	<u>x 0</u>	<u>x 2</u>	<u>x 5</u>	<u>x 4</u>	<u>x 6</u>	<u>x 9</u>	<u>x 7</u>	<u>x 4</u>	<u>x 0</u>

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>	<u>x 1</u>

DIVISION

Divide 3-digits by 1-digit with remainders:

$\overline{4) 291}$	$\overline{3) 265}$	$\overline{5) 463}$	$\overline{8) 299}$	$\overline{2) 137}$
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Divide 3-digits by 2-digits with remainders:

$\overline{42) 293}$	$\overline{81) 674}$	$\overline{38) 230}$	$\overline{79) 524}$	$\overline{84) 427}$
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DECIMALS:

Multiply decimals by natural numbers 1-9:

$.042 \times 2 =$ $.5 \times 6 =$ $.25 \times 8 =$ $.333 \times 9 =$ $.04 \times 1 =$

Divide decimals by natural numbers 1-9:

$.5 \div 2 =$ $.025 \div 1 =$ $.623 \div 5 =$ $.75 \div 9 =$ $.133 \div 4 =$

FRACTIONS

Write in the lowest terms:

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

Add fractions with Lowest Common Denominator included:

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

Add fractions without Lowest Common Denominator provided:

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

Subtract fractions with Lowest Common Denominator included:

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

Subtract fractions without Lowest Common Denominator provided

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

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?
