

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 _____

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
<u>+123</u>	<u>+245</u>	<u>+532</u>	<u>+256</u>	<u>+372</u>

_____/5 attempts

5403	2006	8003	6103	3005
- <u>1289</u>	- <u>1127</u>	- <u>3526</u>	- <u>2315</u>	- <u>1259</u>

_____/5 attempts

Add decimals with the same number of places:

.25	.5	.435	.03	.72
<u>+ .26</u>	<u>+ .7</u>	<u>+ .102</u>	<u>+ .25</u>	<u>+ .53</u>

_____/5 attempts

Subtract decimals with the same number of places:

$$\begin{array}{r} .5 \\ - .2 \\ \hline \end{array} \quad \begin{array}{r} .752 \\ - .431 \\ \hline \end{array} \quad \begin{array}{r} .023 \\ - .011 \\ \hline \end{array} \quad \begin{array}{r} .25 \\ - .15 \\ \hline \end{array} \quad \begin{array}{r} .3 \\ - .2 \\ \hline \end{array}$$

_____/5 attempts

ESTIMATION:

Estimate sums by rounding to nearest ten.

$$\begin{array}{r} 69 \\ + 22 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} \end{array}$$

$$\begin{array}{r} 66 \\ + 47 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} \end{array}$$

$$\begin{array}{r} \$37.52 \\ + \$22.89 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} \end{array}$$

$$\begin{array}{r} \$126.35 \\ + \$142.66 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} \end{array}$$

$$\begin{array}{r} \$12.76 \\ + \$15.02 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} \end{array}$$

_____/5

Estimate differences rounding to the nearest hundred:

$$\begin{array}{r} 542 \\ - 167 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} \end{array} \quad \begin{array}{r} 782 \\ - 276 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} \end{array} \quad \begin{array}{r} 921 \\ - 680 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} \end{array}$$

$$\begin{array}{r} \$263.54 \\ - \$167.05 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} \end{array} \quad \begin{array}{r} \$725.89 \\ - \$422.35 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} \end{array}$$

_____/5

MULTIPLICATION:

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

$$\begin{array}{r} 267 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 173 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 485 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 196 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 247 \\ \times 3 \\ \hline \end{array}$$

/5

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

$$\begin{array}{r} 39 \\ \times 67 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 58 \\ \hline \end{array}$$

$$\begin{array}{r} 95 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 84 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ \times 49 \\ \hline \end{array}$$

/5

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

$$\begin{array}{r} 604 \\ \times 25 \\ \hline \end{array}$$

$$\begin{array}{r} 703 \\ \times 68 \\ \hline \end{array}$$

$$\begin{array}{r} 807 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 508 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} 901 \\ \times 78 \\ \hline \end{array}$$

/5

DIVISION:

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

$$3 \overline{) 57}$$

$$4 \overline{) 72}$$

$$5 \overline{) 85}$$

$$3 \overline{) 75}$$

$$2 \overline{) 54}$$

/5

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

$$3 \overline{) 246}$$

$$4 \overline{) 128}$$

$$5 \overline{) 205}$$

$$6 \overline{) 426}$$

$$7 \overline{) 567}$$

NAME: _____ DATE: _____

DIVISION FACTS

$$9 \overline{)72}$$

$$7 \overline{)42}$$

$$8 \overline{)24}$$

$$2 \overline{)10}$$

$$4 \overline{)4}$$

$$3 \overline{)9}$$

$$4 \overline{)36}$$

$$1 \overline{)8}$$

$$7 \overline{)14}$$

$$6 \overline{)0}$$

$$7 \overline{)21}$$

$$9 \overline{)54}$$

$$7 \overline{)0}$$

$$8 \overline{)16}$$

$$9 \overline{)9}$$

$$6 \overline{)48}$$

$$8 \overline{)56}$$

$$7 \overline{)35}$$

$$9 \overline{)0}$$

$$6 \overline{)30}$$

$$7 \overline{)63}$$

$$8 \overline{)8}$$

$$9 \overline{)45}$$

$$6 \overline{)6}$$

$$8 \overline{)32}$$

$$5 \overline{)20}$$

$$1 \overline{)4}$$

$$2 \overline{)12}$$

$$5 \overline{)35}$$

$$4 \overline{)8}$$

$$5 \overline{)25}$$

$$1 \overline{)5}$$

$$2 \overline{)16}$$

$$3 \overline{)21}$$

$$4 \overline{)12}$$

$$5 \overline{)40}$$

$$3 \overline{)24}$$

$$1 \overline{)6}$$

$$4 \overline{)24}$$

$$5 \overline{)30}$$

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?
