

# 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 4<sup>th</sup> 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.

$$\begin{array}{r} 69 \\ + 22 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{r} 66 \\ + 47 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{r} \$37.52 \\ + \$22.89 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{r} \$126.35 \\ + \$142.66 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{r} \$12.76 \\ + \$15.02 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{array}$$

\_\_\_\_\_/5

Estimate differences rounding to the nearest hundred:

$$\begin{array}{r} 542 \\ - 167 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{r} 782 \\ - 276 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{r} 921 \\ - 680 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{r} \$263.54 \\ - \$167.05 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{r} \$725.89 \\ - \$422.35 \\ \hline \end{array} = \begin{array}{r} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{array}$$

\_\_\_\_\_/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?  
\_\_\_\_\_