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
+123  +245  +532  +256  +372

_____ /5 attempts

5403  2006  8003  6103  3005
- 1289  - 1127  - 3526  - 2315  - 1259

_____ /5 attempts

Add decimals with the same number of places:

.25  .5  .435  .03  .72
+.26  +.7  +.102  +.25  +.53

_____ /5 attempts
Subtract decimals with the same number of places:

<table>
<thead>
<tr>
<th>.5</th>
<th>.752</th>
<th>.023</th>
<th>.25</th>
<th>.3</th>
</tr>
</thead>
</table>
| -.2| -.431| -.011| -.15| -.2|_____/5 attempts

**ESTIMATION:**
Estimate sums by rounding to nearest ten.

<table>
<thead>
<tr>
<th>69</th>
<th>+22</th>
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<tbody>
<tr>
<td>66</td>
<td>+47</td>
</tr>
</tbody>
</table>

$\bigg|\begin{array}{l}
69 + 22 = \boxed{91} \\
66 + 47 = \boxed{113}
\end{array}\bigg|$  

$\bigg|\begin{array}{l}
$37.52 + $22.89 = \boxed{100.41} \\
$126.35 + $142.66 = \boxed{269.01}
\end{array}\bigg|$  

$\bigg|\begin{array}{l}
$12.76 + $15.02 = \boxed{27.78}
\end{array}\bigg|$  

Estimate differences rounding to the nearest hundred:

<table>
<thead>
<tr>
<th>542</th>
<th>782</th>
<th>921</th>
</tr>
</thead>
<tbody>
<tr>
<td>167</td>
<td>276</td>
<td>680</td>
</tr>
</tbody>
</table>

$\bigg|\begin{array}{l}
542 - 167 = \boxed{375} \\
782 - 276 = \boxed{506} \\
921 - 680 = \boxed{241}
\end{array}\bigg|$  

$\bigg|\begin{array}{l}
$263.54 - $167.05 = \boxed{96.49} \\
$725.89 - $422.35 = \boxed{303.54}
\end{array}\bigg|$  

_____/5
MULTIPLICATION:
Multiply a 3-digit number by a 1-digit number:
\[
\begin{array}{cccc}
267 & 173 & 485 & 196 \\
x 3 & x 4 & x 2 & x 4 \\
& & & x 3 \\
\end{array}
\]

Multiply a 2-digit number by a 2-digit number:
\[
\begin{array}{cccc}
39 & 46 & 95 & 84 \\
x 67 & x 58 & x 27 & x 36 \\
& & x 49 & \\
\end{array}
\]

Multiply a 3-digit number by a 2-digit number:
\[
\begin{array}{cccc}
604 & 703 & 807 & 508 \\
x 25 & x 68 & x 42 & x 34 \\
& & x 78 & \\
\end{array}
\]

DIVISION:
Divide a 2-digit number by a 1-digit number:
\[
\begin{array}{cccc}
3 ) 57 & 4 ) 72 & 5 ) 85 & 3 ) 75 \\
& & & 2 ) 54 \\
\end{array}
\]

Divide a 3-digit number by a 1-digit number:
\[
\begin{array}{cccc}
3 ) 246 & 4 ) 128 & 5 ) 205 & 6 ) 426 \\
& & & 7 ) 567 \\
\end{array}
\]
### Multiplication Facts

**0-9**

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Name: _______________________________

Time: ______________

No. Correct: ____/100
DIVISION FACTS

9 ) 72   7 ) 42   8 ) 24   2 ) 10
4 ) 4   3 ) 9   4 ) 36   1 ) 8
7 ) 14   6 ) 0   7 ) 21   9 ) 54
7 ) 0   8 ) 16   9 ) 9   6 ) 48
8 ) 56   7 ) 35   9 ) 0   6 ) 30
7 ) 63   8 ) 8   9 ) 45   6 ) 6
8 ) 32   5 ) 20   1 ) 4   2 ) 12
5 ) 35   4 ) 8   5 ) 25   1 ) 5
2 ) 16   3 ) 21   4 ) 12   5 ) 40
3 ) 24   1 ) 6   4 ) 24   5 ) 30
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? __________