

## INFORMAL MATH PROBES - GRADE 3

### NUMERATION:

- Read 4-digit numbers in \_\_\_\_/5 attempts.
- Read 5-digit numbers in \_\_\_\_/5 attempts.
- Write 4-digit numbers in \_\_\_\_/5 attempts.
- Write 5-digit numbers in \_\_\_\_/5 attempts.
- Round numbers to the nearest ten or hundred in \_\_\_\_/5 attempts.

### ADDITION & SUBTRACTION:

- Addition facts (sums to 50) with \_\_\_\_% accuracy, \_\_\_\_ (number) problems completed in one minute.
- Add two 3-digit numbers with regrouping \_\_\_\_/5 attempts.
- Subtraction facts (minuends to 50) with \_\_\_\_% accuracy, \_\_\_\_ (number) problems completed in one minute.
- Subtracting two 3-digit numbers with regrouping \_\_\_\_/5 attempts.

### MULTIPLICATION:

- Use multipliers 0, 1, 2, 5, & 9, with \_\_\_\_% accuracy, \_\_\_\_ (number) problems completed in one minute.
- Multiplying two numbers by 1 number. \_\_\_\_/5 attempts.

### COMPARISONS:

- Compare numbers up to 10,000 using greater than, less than and equal to. \_\_\_\_/5 attempts.

### FRACTIONS:

- Write a fraction from a picture. \_\_\_\_/5 attempts

### TIME: (Use clock manipulative)

- Tell time in five-minute intervals \_\_\_\_/5 attempts.
- Tell time to the nearest minute in \_\_\_\_/5 attempts.
- Tell time at minute to the hour \_\_\_\_/5 attempts.
- Write time to the nearest minute using digital notation in \_\_\_\_/5 attempts.

### MONEY (Use actual coins and bills):

- Give value of a collection of coins to \$1.00 in \_\_\_\_/5 attempts.
- Give value of a collection of coins and bills to \$5.00 in \_\_\_\_/5 attempts.

### PROBLEM SOLVING :

- Solve 3<sup>rd</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:

Read 4-digit numbers:

1,380      3,059      5,407      7,384      9,086

Read 5-digit numbers:

10,836      42,504      75,002      67,091      99,929

Write 4-digit numbers:

\_\_\_\_\_

Write 5-digit numbers:

\_\_\_\_\_

Round to the nearest ten or hundred:

768      472      1,765      2,642      3,296

\_\_\_\_\_

Addition – 3 digits with regrouping:

$\begin{array}{r} 228 \\ +216 \\ \hline \end{array}$        $\begin{array}{r} 314 \\ +358 \\ \hline \end{array}$        $\begin{array}{r} 614 \\ +239 \\ \hline \end{array}$        $\begin{array}{r} 743 \\ +139 \\ \hline \end{array}$        $\begin{array}{r} 529 \\ +436 \\ \hline \end{array}$

Subtraction – 3 digits with regrouping:

$\begin{array}{r} 735 \\ -268 \\ \hline \end{array}$        $\begin{array}{r} 463 \\ -194 \\ \hline \end{array}$        $\begin{array}{r} 967 \\ -398 \\ \hline \end{array}$        $\begin{array}{r} 421 \\ -287 \\ \hline \end{array}$        $\begin{array}{r} 614 \\ -486 \\ \hline \end{array}$

Multiplication – 2 digits by 1 digit:

$\begin{array}{r} 22 \\ \times 2 \\ \hline \end{array}$        $\begin{array}{r} 41 \\ \times 2 \\ \hline \end{array}$        $\begin{array}{r} 31 \\ \times 2 \\ \hline \end{array}$        $\begin{array}{r} 51 \\ \times 1 \\ \hline \end{array}$        $\begin{array}{r} 72 \\ \times 1 \\ \hline \end{array}$

# *Addition Facts*

## *Sums to 50*

Name: \_\_\_\_\_

Time: \_\_\_\_\_ No. Correct: \_\_\_\_/100

4	2	3	7	4	1	5	5	6	3
<u>+1</u>	<u>+7</u>	<u>+9</u>	<u>+9</u>	<u>+6</u>	<u>+4</u>	<u>+5</u>	<u>+0</u>	<u>+4</u>	<u>+1</u>

6	7	9	2	4	6	8	8	9	6
<u>+2</u>	<u>+0</u>	<u>+1</u>	<u>+0</u>	<u>+4</u>	<u>+7</u>	<u>+6</u>	<u>+7</u>	<u>+8</u>	<u>+0</u>

19	2	4	25	7	15	39	2	15	29
<u>+9</u>	<u>+8</u>	<u>+9</u>	<u>+0</u>	<u>+14</u>	<u>+7</u>	<u>+2</u>	<u>+29</u>	<u>+33</u>	<u>+5</u>

35	16	27	19	23	17	9	37	25	18
<u>+3</u>	<u>+24</u>	<u>+17</u>	<u>+28</u>	<u>+15</u>	<u>+18</u>	<u>+4</u>	<u>+7</u>	<u>+13</u>	<u>+25</u>

11	23	45	6	37	15	28	15	6	19
<u>+13</u>	<u>+3</u>	<u>+1</u>	<u>+10</u>	<u>+12</u>	<u>+16</u>	<u>+7</u>	<u>+3</u>	<u>+16</u>	<u>+24</u>

36	18	11	23	18	37	18	28	35	14
<u>+9</u>	<u>+3</u>	<u>+27</u>	<u>+16</u>	<u>+8</u>	<u>+5</u>	<u>+9</u>	<u>+2</u>	<u>+8</u>	<u>+19</u>

21	27	28	31	2	18	29	11	13	22
<u>+6</u>	<u>+16</u>	<u>+0</u>	<u>+12</u>	<u>+19</u>	<u>+12</u>	<u>+3</u>	<u>+22</u>	<u>+8</u>	<u>+13</u>

15	16	24	26	19	4	31	27	18	8
<u>+29</u>	<u>+3</u>	<u>+12</u>	<u>+6</u>	<u>+6</u>	<u>+7</u>	<u>+8</u>	<u>+12</u>	<u>+15</u>	<u>+0</u>

8	24	35	13	27	38	19	23	34	16
<u>+15</u>	<u>+0</u>	<u>+14</u>	<u>+2</u>	<u>+11</u>	<u>+4</u>	<u>+4</u>	<u>+22</u>	<u>+0</u>	<u>+7</u>

22	11	24	27	8	29	43	17	24	36
<u>+14</u>	<u>+15</u>	<u>+13</u>	<u>+13</u>	<u>+11</u>	<u>+7</u>	<u>+7</u>	<u>+7</u>	<u>+2</u>	<u>+9</u>

# *Subtraction Facts*

## *Minuends to 50*

Name: \_\_\_\_\_

Time: \_\_\_\_\_ No. Correct: \_\_\_\_/100

10	13	2	8	10	14	14	9	5	10
<u>-2</u>	<u>-7</u>	<u>-1</u>	<u>-2</u>	<u>-1</u>	<u>-5</u>	<u>-9</u>	<u>-2</u>	<u>-2</u>	<u>-4</u>
5	7	5	16	12	15	12	12	9	17
<u>-0</u>	<u>-1</u>	<u>-0</u>	<u>-9</u>	<u>-7</u>	<u>-8</u>	<u>-8</u>	<u>-9</u>	<u>-9</u>	<u>-9</u>
8	6	16	12	13	7	12	7	8	13
<u>-6</u>	<u>-3</u>	<u>-7</u>	<u>-6</u>	<u>-5</u>	<u>-2</u>	<u>-5</u>	<u>-6</u>	<u>-4</u>	<u>-9</u>
9	16	6	29	6	7	10	4	8	24
<u>-5</u>	<u>-8</u>	<u>-0</u>	<u>-8</u>	<u>-1</u>	<u>-4</u>	<u>-5</u>	<u>-4</u>	<u>-1</u>	<u>-3</u>
15	10	33	24	38	27	38	12	48	43
<u>-9</u>	<u>-8</u>	<u>-14</u>	<u>-7</u>	<u>-5</u>	<u>-7</u>	<u>-28</u>	<u>-3</u>	<u>-10</u>	<u>-21</u>
46	26	49	50	13	15	35	43	32	9
<u>-5</u>	<u>-12</u>	<u>-14</u>	<u>-13</u>	<u>-6</u>	<u>-8</u>	<u>-7</u>	<u>-12</u>	<u>-24</u>	<u>-0</u>
44	47	35	13	10	38	49	23	11	46
<u>-12</u>	<u>-10</u>	<u>-3</u>	<u>-6</u>	<u>-9</u>	<u>-7</u>	<u>-16</u>	<u>-0</u>	<u>-3</u>	<u>-16</u>
11	37	14	39	42	37	48	15	11	33
<u>-9</u>	<u>-5</u>	<u>-6</u>	<u>-17</u>	<u>-22</u>	<u>-13</u>	<u>-23</u>	<u>-11</u>	<u>-2</u>	<u>-3</u>
10	27	11	36	44	34	10	26	11	19
<u>-6</u>	<u>-1</u>	<u>-4</u>	<u>-9</u>	<u>-11</u>	<u>-10</u>	<u>-7</u>	<u>-4</u>	<u>-8</u>	<u>-16</u>
39	5	44	38	34	11	39	47	11	49
<u>-3</u>	<u>-5</u>	<u>-9</u>	<u>-19</u>	<u>-18</u>	<u>-5</u>	<u>-1</u>	<u>-18</u>	<u>-7</u>	<u>-9</u>

NAME \_\_\_\_\_ DATE \_\_\_\_\_

**MULTIPLICATION**  
(0, 1, 2, 5, 9)

$$\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 0 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 0 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 0 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 0 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 0 \\ \times 5 \\ \hline \end{array}$$

Comparisons:

Compare the given numbers using greater than and less than symbols (> and <) or equal to (=).

$5,789 \square 6,829$

$3,286 \square 9,482$

$4,628 \square 4,658$

$255 \square 255$

$6,766 \square 7,924$

/5

Fractions:

Write a fraction to represent the following pictures.



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



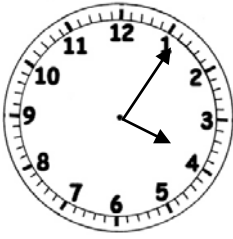
\_\_\_\_\_



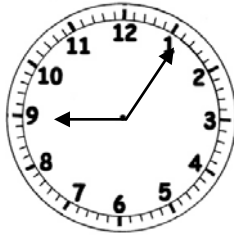
\_\_\_\_\_

/5

Tell time by five minute intervals:



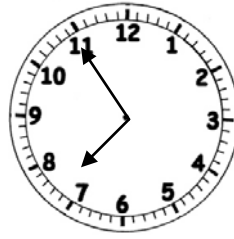
\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



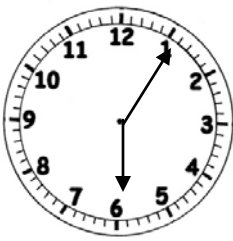
\_\_\_\_\_



\_\_\_\_\_

/5

Tell time to the nearest minute. Use digital notation:



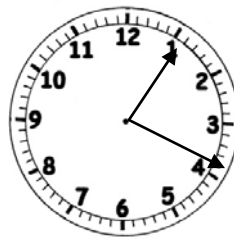
\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



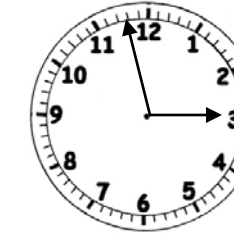
\_\_\_\_\_

/5

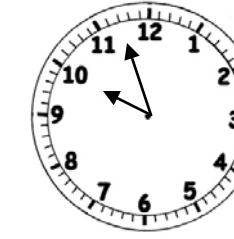
Tell time to minutes to the hour:



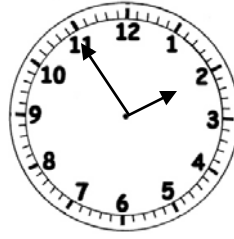
\_\_\_\_\_



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\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

/5

Name \_\_\_\_\_ Date \_\_\_\_\_

STORY PROBLEMS - GRADE 3

1. 21 girls rode the Octopus.  
Then 34 more girls rode.  
How many girls rode in all? \_\_\_\_\_
  
2. 22 girls won prizes.  
19 boys won prizes.  
How many more girls won prizes? \_\_\_\_\_
  
3. A beautiful black horse names star has been  
in 232 races. He lost only 84 of them.  
How many has he won? \_\_\_\_\_
  
4. Prince has won 149 races and lost 64.  
How many races has he been in? \_\_\_\_\_
  
5. By the end of the bazaar, there were orders for 30 bird  
feeders. Since 5 people make the feeders, how many would  
each person have to make? \_\_\_\_\_