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 3rd 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:

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

Subtraction – 3 digits with regrouping:

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

Multiplication – 2 digits by 1 digit:

$$
\begin{array}{ccccc}
22 & 41 & 31 & 51 & 72 \\
\times\ 2 & \times\ 2 & \times\ 2 & \times\ 1 & \times\ 1 \\
\end{array}
$$

Addition Facts
Sums to 50

Name: _____

Time: _____ No. Correct: ____/100

4 +1	2 +7	3 +9	7 +9	4 +6	1 +4	5 +5	5 +0	6 +4	3 +1
6 +2	7 +0	9 +1	2 +0	4 +4	6 +7	8 +6	8 +7	9 +8	6 +0
19 +9	2 +8	4 +9	25 + 0	7 +14	15 + 7	39 + 2	2 +29	15 +33	29 + 5
35 + 3	16 +24	27 +17	19 +28	23 +15	17 +18	9 +4	37 + 7	25 +13	18 +25
11 +13	23 + 3	45 + 1	6 +10	37 +12	15 +16	28 + 7	15 +3	6 +16	19 +24
36 + 9	18 + 3	11 +27	23 +16	18 + 8	37 + 5	18 + 9	28 + 2	35 + 8	14 +19
21 + 6	27 +16	28 + 0	31 +12	2 +19	18 +12	29 + 3	11 +22	13 + 8	22 +13
15 +29	16 + 3	24 +12	26 + 6	19 + 6	4 +7	31 + 8	27 +12	18 +15	8 +0
8 +15	24 + 0	35 +14	13 + 2	27 +11	38 + 4	19 + 4	23 +22	34 + 0	16 + 7
22 +14	11 +15	24 +13	27 +13	8 +11	29 + 7	43 + 7	17 + 7	24 + 2	36 + 9

Subtraction Facts
Minuends to 50

Name: _____

Time: _____ No. Correct: ____/100

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

NAME _____ DATE _____

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

6	0	9	3	6	4	5	1	0	2
x 0	x 0	x 5	x 0	x 9	x 1	x 5	x 5	x 9	x 9

6	3	8	8	1	7	5	6	7	2
x 5	x 5	x 0	x 9	x 0	x 0	x 1	x 1	x 9	x 1

6	4	2	0	9	2	1	3	1	8
x 2	x 5	x 0	x 2	x 1	x 2	x 2	x 2	x 1	x 5

5	4	9	7	4	3	5	3	8	7
x 9	x 2	x 2	x 0	x 0	x 9	x 0	x 1	x 2	x 1

5	9	7	8	2	4	9	7	1	0
x 2	x 0	x 5	x 1	x 5	x 9	x 9	x 2	x 9	x 5

3rd Grade Math Probes

Comparisons:

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

5,789 ☐ 6,829   3,286 ☐ 9,482   4,628 ☐ 4,658

255 ☐ 255   6,766 ☐ 7,924

/5

Fractions:

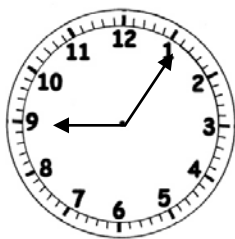Write a fraction to represent the following pictures.

_____   _____   _____   _____   _____
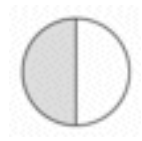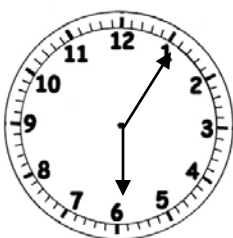
/5

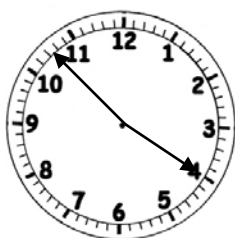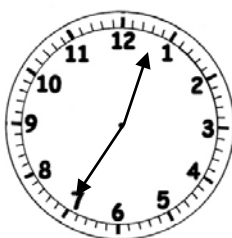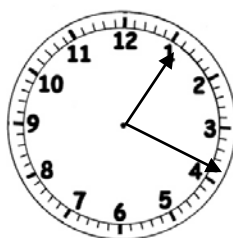Tell time by five minute intervals:

_____   _____   _____   _____   _____

/5

Tell time to the nearest minute. Use digital notation:

_____   _____   _____   _____   _____

/5

Tell time to minutes to the hour:

_____   _____   _____   _____   _____
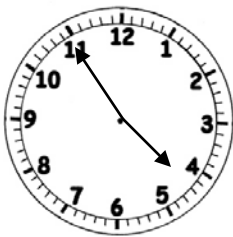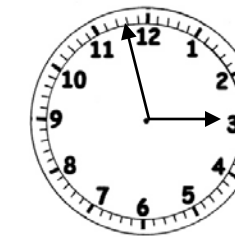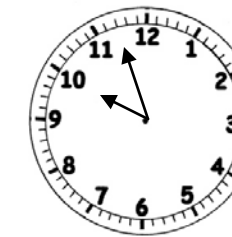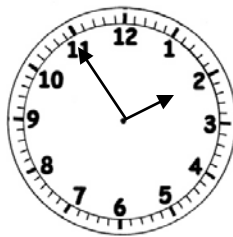
/5

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?   _____