A Resource Manual for the Development and Evaluation of Special Programs for Exceptional Students

Volume V-D

Techniques of Precision Teaching

Part 2:

Math Basic Skills Curriculum

Florida Department of Education
Bureau of Exceptional Education and Student Services
1983

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INTRODUCTION

The following Math basic skills curriculum was developed as a guideline for use in the Specific Learning Disabilities, Educably Mentally Handicapped and Emotionally Handicapped Programs. It is based on selected skills from commonly used materials for math and includes most Florida State Assessment Skills.

For organizational purposes, academic skills within the content areas have been arranged in strands. The Math strands include Numeration, Addition, Subtraction, Multiplication, Division, Decimals, Word Problems, Fractions and Measurement.

The curriculum was written in Precision Teaching terminology in order to help teachers pinpoint specific skill deficits, identify intake-output channels and make each skill measurable.

The skills within each strand are arranged in sequential order with Mastery Skills listed first and component skills indented under each Mastery Skill.

Example: Addition

See-Write sums, 2D + 1D, 2D + 2D (no reg. & reg.)

See-Write sums, 2D + 1D, 2D + 2D (reg.)

See-Write sums, 2D + 1D, 2D + 2D (no reg.)

Many of the strands such as Numeration are more complex and are organized with sub-topics. Within these sub-topics skills are organized as listed above.

Example: Numeration - Number Words

See number words - write numerals (0-100)

See number words - write numerals (0-50)

See number words - write numerals (0-20)

The skills underlined at the end of each strand are called Mixed Mastery Skills and are a complitation of all the skills in one strand or several strands. This skill provides a more complete measure of a student's learning through the use of discrimination of mixed skills.

Since it is difficult to rank all skills in a strand, it is <u>not</u> necessary to teach each skill in any sequential order. Teachers are encouraged to utilize those skills which are important to individual student learning.

Specific practice sheets have been designed to measure most skills located in each strand along with the Mixed Mastery practice sheet used to measure competency of that entire strand. The Mixed Mastery sheet can also be used for initial assessment and maintenance skill measurement. Some strands contain too many isolated skills to develop a Mixed Mastery practice sheet. Teachers may want to develop their own practice sheets using a few of the skills in that particular strand.

Many skills in the curriculum have additional practice sheets or "slice backs." These sheets are provided for those students who need smaller steps in the curriculum. For example, if a teacher has pinpointed the skill of 2D + 1D, 2D + 2D (reg.) for a student and there is no progress with that skill there are "sliced sheets" of 2D + 1D (reg) or 2D + 2D (reg.) available for the teacher to utilize. However, it is recommended to guide students through the curriculum in larger steps if possible.

Practice sheets are organized by strands from least to most difficult skills. A listing of all the practice sheets that are available for each strand comes with each set. Each practice sheet is correlated with skill levels and the notations in the upper hand corner include the number of the sheet, a brief description of the skill and an asterisk (*) if it is a Florida State Assessment Skill.

After teachers use the curriculum to pinpoint the skills needed for individual students each listing will be helpful in locating the appropriate practice sheets.

NUMERATION

NUMERALS

Think-Say numerals (0-100)

Think-Say numerals backwards (50-0)

Think-Say numerals (0-50)

Think-Say numerals backwards (20-0)

Think-Say numerals (0-20)

Think-Say numerals backwards (10-0)

Think-Say numerals (0-10)

See-Write numerals (100-10,000) * random

See-Say numerals (100-10,000)* random

See-Write numerals (0-99)* random

See-Say numerals (0-99)* random

See-Write numerals (0-50) random

See-Say numerals (0-50) random

See-Write numerals (0-20) random

See-Say numerals (0-20) random

See-Write numerals (0-10) random

See-Say numerals (0-10) random

See-Trace numerals (0-10) random

See-Write Roman numerals (I-X)

SETS

See sets-Write numerals 0-1000*

See sets - Write numerals 0-100*

See sets - Write numerals 0-10

See numerals - Write sets 0-10

CONCEPTS

See-Write numerals or sets (one more, one less)

See-numerals - Write one more or one less

See sets - Write one more or one less

See sets - Mark more or less

See-Say +, -, =, > , < .

See-Say =, > , < .

See-Say +, -, =.

See-Write > , < , = (0-100)

See numeral - Mark smaller or larger (0-100)

See-Write > , < , = (0-50)

See numeral - Mark smaller or larger (0-50)

See-Write > , < ,= (0-20)

See numeral - Mark smaller or larger (0-20)*

See-Write $>$, $<$, = (0-10)

See numeral - Mark smaller or larger (0-10)

SEQUENCE

See numeral sequence - Write missing numerals (0-10)

Think-Write numerals (0-100)

Think-Write numerals (0-50)

Think-Write numerals (0-20)

Think-Write numerals (0-10)

See-Mark ordinals 11th - 99th *

See-Mark ordinals 1st to 10th *

Hear-Mark ordinals 1st to 10th

See-Write numerals before and after (0-100)*

See-Say numerals before and after (0-100)

See-Write numerals before and after (0-50)

See-Say numerals before and after (0-50)

See-Write numerals before and after (0-20)

See-Say numerals before and after (0-20)

See-Write numerals before and after (0-10)

See-Say numerals before and after (0-10)

Think-Say count by's (5's, 10's, 2's, 3's, 4's to 100)

See sequence-Write missing numerals (5's, 10's 2's)

See numerals - Write in order (0-1,000)*

NUMBER WORDS

See number words - Write numerals (0-100)

See number words - Write numerals (0-50)

See number words - Write numerals (0-20)

See number words - Write numerals (0-10)*

See numerals-Write number words (0-10)*

PLACE VALUE

See-Say place value of 3 and 4 digit numerals

See-Say place value of 2 digit numerals

ROUNDING

See-Write numerals to the nearest 100

See-Write numerals to the nearest 10*

ADDITION

See-Write addition facts (sums 0 - 18) horizontal *

See-Write addition facts (sums 0 - 18) vertical *

See-Write addition facts (sums 0 - 9) vertical

See-Write sums, three 1D nos. (0-18)*

See-Write sums, three 1D nos. (0 - 10)

See-Write missing addends (0 - 18)

See-Write sums, 2D + 1D, 2D + 2D (no regrouping & regrouping)

See-Write sums, 2D + 1D, 2D + 2D (regrouping)

See-Write sums, 2D + 1D, 2D + 2D (no regrouping)*

See-Write sums, 3D + 1D, 3D + 2D (no regrouping & regrouping)*

See-Write sums, 3D + 1D, 3D + 2D (regrouping) *

See-Write sums, 3D + 1D, 3D + 2D (no regrouping) *

See-Write sums, 3D + 3D, 4D + 4D (no regrouping & regrouping)*

See-Write sums, 3D + 3D, 4D + 4D (regrouping)*

See-Write sums, 3D + 3D, 4D + 4D (no regrouping)*

See-Write sums, four 3D nos. (no regrouping & regrouping)*

See-Write sums, three 4D nos. (no regrouping & regrouping)*

See-Write sums multi-digit + multi-digit (no regrouping & regrouping)

SUBTRACTION

See-Write subtraction facts (0 - 18) horizontal *

See-Write subtraction facts (0 - 18) vertical*

See-Write subtraction facts (0 - 9) vertical

See-Write addition and subtraction facts (0 - 18)

See-Write differences, 2D - 1D, 2D - 2D (no regrouping & regrouping)

See-Write differences, 2D - 1D, 2D - 2D (regrouping)

See-Write differences, 2D - 1D, 2D - 2D (no regrouping)*

See-Write differences, 3D - 1D, 3D - 2D (no regrouping & regrouping)

See-Write differences, 3D - 1D, 3D - 2D (regrouping)

See-Write differences, 3D - 1D, 3D - 2D (no regrouping)

See-Write differences, 3D - 3D, 4D - 4D (no regrouping & regrouping)

See-Write differences, 3D - 3D, 4D - 4D (regrouping)*

See-Write differences, 3D - 3D, 4D - 4D (no regrouping)*

See-Write differences, 5D - 5D (regrouping)*

See-Write differences, multi-digit - multi-digit (no regrouping & regrouping)

See-Write sums and differences, multi-digit numbers (no regrouping and regrouping)

MULTIPLICATION

See-Write multiplication facts (0-81) horizontal*

See-Write multiplication facts (0-81) vertical*

See-Write multiplication facts (0-45) vertical

See-Write addition, subtraction & multiplication facts

See-Write products, 2D x 1D, 2D x 2D (no regrouping & regrouping)

See-Write products, 2D x 1D, 2D x 2D (regrouping)

See-Write products, 2D x 1D, 2D x 2D (no regrouping)

See-Write products, 3D x 1D, 3D x 2D (no regrouping & regrouping)*

See-Write products, 3D x 1D, 3D x 2D (regrouping)*

See-Write products, 3D x 1D, 3D x 2D (no regrouping)*

See-Write products, 3D x 3D, 4D x 4D (regrouping)

See-Write products, multi-digit x multi-digit (no regrouping & regrouping)

See-Write sums, differences & products, multi-digit numbers (no regrouping & regrouping)

DIVISION

See-Write division facts (0-81)

See-Write division facts (0-45)*

See-Write addition, subtraction, multiplication & division facts

See-Write quotients, multi-digit ÷ 1D (remainder & no remainder)

See-Write quotients, 3D & 5D ÷ 1D (remainder & no remainder)*

See-Write quotients, 2D ÷ 1D (remainder)

See-Write quotients, multi-digit ÷ 2D (remainder & no remainder)

See-Write quotients, 3D & 4D ÷ 2D (remainder & no remainder)

See-Write quotients, 2D ÷ 2D (remainder)

See-Write quotients, multi-digit ÷ multiples of 10*

See-Write quotients, multi-digit ÷ multi-digit (remainder & no remainder)

See-Write sums, differences, products & quotients, multi-digit numbers (no regrouping & regrouping)

DECIMALS

See-Say decimals, 10th, 100th, 1,000th*

See-Mark larger or smaller of two decimals

See-Write decimal place value to 10th, 100th, 1,000th place

See-Write decimal from number word

See fraction-Write equivalent decimal*

See-Mark decimal point for sums, differences, products & quotients, multi-digit decimals

- See-Mark decimal point for quotients, 1D, 2D & 3D decimals
- See-Mark decimal point for products, 1D, 2D & 3D decimals
- See-Write differences for 1D, 2D & 3D decimals
- See-Write sums for 1D, 2D & 3D decimals

WORD PROBLEMS

See key words-Write symbols (+ - x ÷)

- See key words-Write symbols (x ÷)
- See key words-Write symbols (+ -)

See-Write equations for simple word problems (+, -, x, ÷)

- See-Write equations for word simple problems (x, ÷)
- See-Write equations for simple word problems (+, -)

See-Write equations for word problems, 2 & 3 digit (+, -, x, ÷)

- See-Write equations for word problems, 2 & 3 digit (x ÷)
- See-Write equations for word problems, 2 & 3 digit (+, -)

FRACTIONS

See picture-Write fractions (1/2, 1/3, 1/4)*

See picture-Write fractions (1/2, 1/4, 1/5, 1/8, 1/10)

See fraction-Mark equivalent objects (1/2, 1/3, 1/4)*

See picture-Mark equivalent fractions (1/2, 1/4, 1/3)

See picture-Mark equivalent fractions (1/2, 1/4, 1/5, 1/8, 1/10)*

See-Write mixed number to improper fraction

See-Write improper fraction to mixed number

See-Write fraction to lowest terms

See-Write equivalent fractions

ADDITION

See-Write sums, fractions with mixed numbers (renaming & no renaming)

- See-Write sums, fractions with mixed numbers (renaming)
- See-Write sums, fractions with mixed numbers (no renaming)
- See-Write sums, fractions with unlike denominators
- See-Write sums, fractions with like denominators*

SUBTRACTION

See-Write differences, fractions with mixed numbers (renaming & no renaming)

- See-Write differences, fractions with mixed numbers (renaming)
- See-Write differences, fractions with mixed numbers (no renaming)
- See-Write differences, fractions with unlike denominators
- See-Write differences, fractions with like denominators*

See-Write sums & differences, fractions with mixed number, (renaming & no renaming)

MULTIPLICATION

See-Write products, proper fraction x mixed numbers

See-Write products, proper fractions x whole numbers

See-Write products, proper fractions x proper fractions

DIVISION

See-Write quotients, proper fractions ÷ mixed numbers

See-Write quotients, proper fractions ÷ whole numbers

See-Write quotients, proper fractions ÷ proper fractions

See-Write products and quotients, fractions with mixed numbers (renaming & no renaming)

MEASUREMENT

Vocabulary

See-Say measurement words

See-Say measurement abbreviations

TIME

See-Write time shown on clock to minute*

- See-Write time shown on clock to 5 minutes
- See-Write time shown on clock to quarter hour
- See-Write time shown on clock to hour-half hour*

See-Write equivalent values for hours and minutes

CALENDAR FACTS

See-Write days of the week and months of the year in order.

- Think-Say months of the year
- Think-Say days of the week

See-Write month, day, year using a calendar*

See-Write equivalent values for week, month, year.

MONEY

See-Say name of coins: penny, nickel, dime, quarter, half-dollar & dollar

See-Say value of coins: penny, nickel, dime, quarter, half-dollar & dollar

See-Write value of coins: penny, nickel, dime, quarter, half-dollar & dollar

See-Write value of a collection of coins to 5 dollars*

See-Write value of a collection of coins to 1 dollar

See-Write value of a collection of coins to 25 cents

See-Write sums and differences, $ (no regrouping & regrouping)

See-Write change from $1.00

STANDARD MEASUREMENT

See-Write equivalent values for linear measurement

See-Write equivalent values for liquid measurement

METRICS

See-Say metric words

See metric words-Say metric unit (length, mass, volume)

See metric word-Write metric symbol

See metric prefix-Write metric value

See metric value-Write metric prefix

NUMERATION

N-1	Counting Direction Sheet
N-2	Trace Numerals 0-10 Random
N-3	Say Numerals 0-10 Random
N-4	Write Numerals 0-10 Random
N-5	Say Numerals 0-20 Random
N-6	Write Numerals 0-20 Random
N-7	Say Numerals 0-50 Random
N-8	Write Numerals 0-50 Random
N-9	Say Numerals 0-99 Random*
N-10	Write Numerals 0-99 Random*
N-11	Say Numerals 100-10,000*
N-12	Write Numerals 100-10,000*
N-13	Roman Numerals (I-X)
N-14	Sets - Write Numerals 0-10
N-15	Sets - Write Numerals 0-100*
N-16	Sets - Write Numerals 0-1000*
N-17	Numerals - Write Sets 0-10
N-18	Sets - More or Less
N-19	Sets - Write One More
N-20	Sets - Write One Less
N-21	Numerals - One More or One Less
N-22	Numerals or Sets - One More or One Less
N-23	Say +, -, =
N-24	Say =, >, <

N-25	Say +, -, =, >, <
N-26	Numerals - Smaller or Larger (0-10)
N-27	Numerals - >, < = (0-10)
N-28	Numerals - Smaller or Larger (0-20)*
N-29	Numerals - >, < = (0-20)
N-30	Numerals - Smaller or Larger (0-50)
N-31	Numerals - >, < = (0-50)
N-32	Numerals - Smaller or Larger (0-100)
N-33	Numerals - >, < = (0-100)
N-34	Numeral Sequence (0-10)
N-35	Writing Numerals Direction Sheet
N-35a	Trace Numeral Sequence (0-9)
N-36	Hear-Mark Ordinals (1st-10th)*
N-37	See-Mark Ordinals (1st-10th)*
N-38	See-Mark Ordinals (11th-99th)*
N-39	Numerals - Before & After (0-10)
N-39a	Numerals - Before (0-10)
N-39b	Numerals - After (0-10)
N-40	Before & After (0-20)
N-40a	Numerals - Before (0-20)
N-40b	Numerals - After (0-20)
N-41	Numerals - Before & After (0-50)
N-41a	Numerals - Before (0-50)
N-41b	Numerals - After (0-50)

N-42	Numerals - Before & After (0-100)*
N-42a	Numerals - Before (0-100)*
N-42b	Numerals - After (0-100)*
N-43	Count By's Direction Sheet
N-44	Numeral Sequence by 5's
N-45	Numeral Sequence by 10's
N-46	Numeral Sequence by 2's
N-47	Write Numerals in Order (0-1000)*
N-48	Number Words - Write Numerals (0-10)*
N-49	Number Words - Write Numerals (0-20)
N-50	Number Words - Write Numerals (0-50)
N-51	Number Words - Write Numerals (0-100)
N-52	Numerals - Write Number Words (0-10)*
N-53	Place Value - 2 digit nos.
N-54	Place Value - 3 & 4 digit nos.
N-55	Rounding - Nearest 10*
N-56	Rounding - Nearest 100

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

think-say

(Numerals 0-100, 0-50 0-20, 0-10)

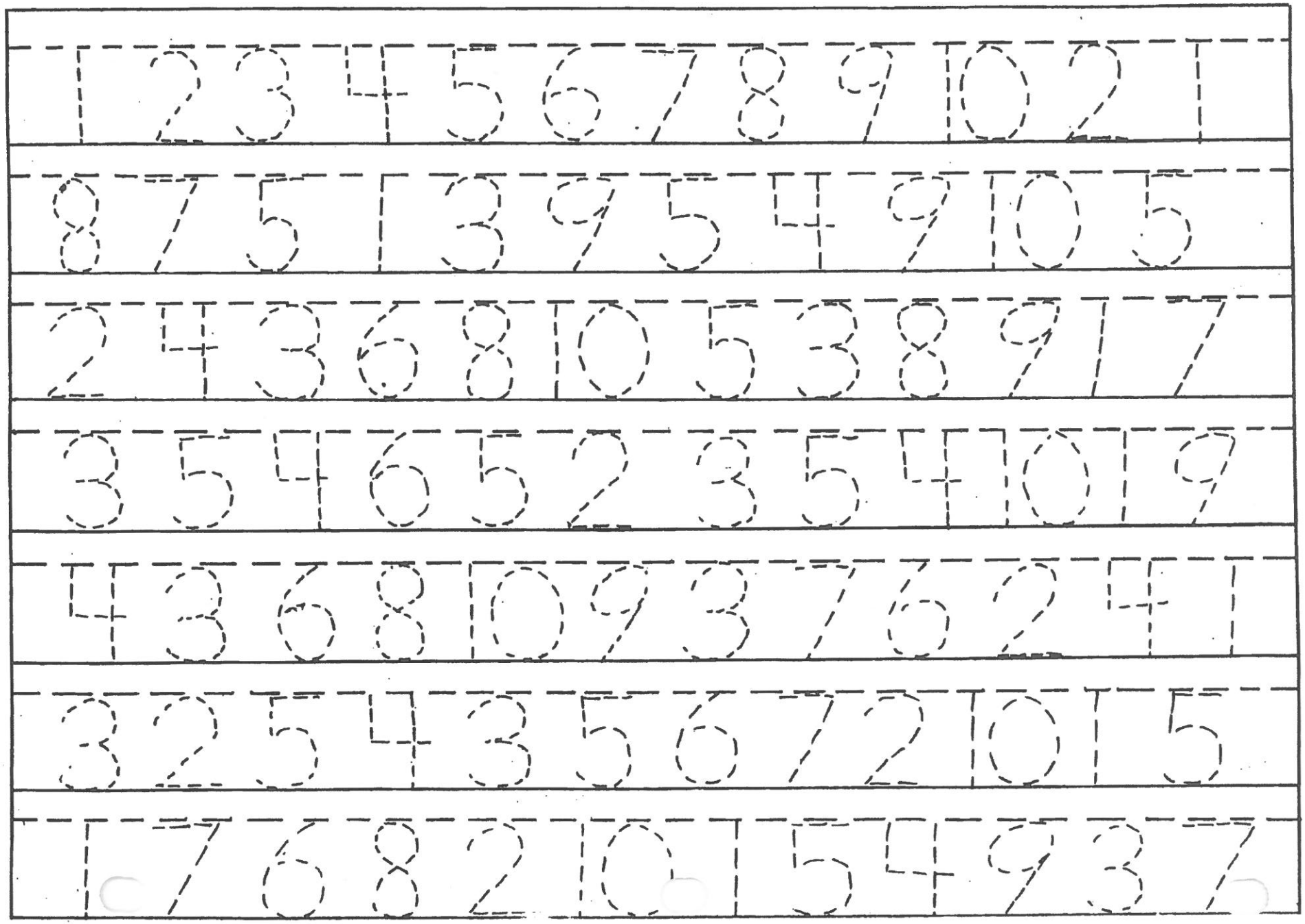
DIRECTIONS:

The student counts orally forward (0, 1, 2, 3, 4, 5...) or backward (10, 9, 8, 7, 6...) repeatedly for one minute. One correct count is given for each numeral the student says in correct sequence. Two digit numerals, such as twenty-one, are counted as one correct answer. Any omissions are counted as errors.

Example: Numerals - backwards 10-0. If the student's oral response in one minute is 10, 9, 8, 6, 5, 4, 3, 2, 1, 0. 10, 9, 6, 5, 4, 3, 2, 1, 0. 9, 8, 7. The count would be 22 correct and 4 incorrect.

see-trace

Tracing Nos.
(0-10)
Random



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PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-say

Numerals (0-10)

7	9	2	0	6	4	1	5	3	8	6	7	10	13
2	1	10	5	4	8	7	0	3	9	6	2	1	26
7	1	9	2	6	8	0	10	5	4	7	1	5	39
0	10	5	4	7	1	5	0	8	3	10	2	6	52
4	0	9	3	8	5	7	1	2	4	6	5	2	65
4	1	0	7	9	3	8	6	5	10	4	1	6	78
10	3	8	2	5	4	2	5	7	0	6	1	9	91
3	10	1	4	2	0	6	7	3	5	9	8	10	104

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see-write

Numerals (0-10)

7	9	2	0	6	4	1	5	3	8	6	7	10	2	1	10	16
5	4	8	7	0	3	9	6	2	1	7	1	9	2	6	8	32
0	10	5	4	7	1	5	0	8	3	10	2	6	4	0	9	48
3	8	5	7	1	2	4	6	5	2	4	1	0	7	9	3	64
8	6	5	10	4	1	6	10	3	8	2	5	4	2	5	7	80
0	6	1	9	3	10	1	4	2	0	6	7	3	5	9	8	96
10	3	4	3	6	7	5	2	1	8	5	7	10	0	4	6	112
8	6	7	2	4	0	10	5	9	3	1	9	7	2	8	2	128

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see-say

Numerals (0-20)

5	17	2	20	15	3	10	7	19	1	4	18	11	13
16	8	14	6	13	9	12	1	20	4	17	3	19	26
5	16	10	2	11	7	8	15	7	14	4	2	2	39
18	13	20	5	3	17	1	6	19	9	10	12	16	52
3	20	11	2	4	13	15	1	18	5	6	17	19	65
14	9	8	7	12	20	1	19	13	2	18	16	3	78
17	15	4	11	5	10	6	4	12	19	2	17	20	91
7	13	1	18	14	17	15	9	3	8	11	19	17	104

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

N-6

Numerals (0-20)

5	17	2	20	15	3	10	7	19	1	4	18	11	16	8	14
6	13	9	12	1	20	4	17	3	19	5	16	10	2	11	7
8	15	7	14	4	2	18	13	20	5	3	17	1	6	19	9
10	12	16	3	20	11	2	4	13	15	1	18	5	6	17	19
14	9	8	7	12	20	1	19	13	2	18	16	3	17	15	4
11	5	10	6	4	12	19	2	16	20	7	13	1	18	14	17
15	9	3	8	11	19	17	10	17	4	12	5	18	6	16	1
20	14	13	17	2	5	18	12	6	17	4	19	3	7	15	11

16
32
48
64
80
96
112
128

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-say

Numerals (0-50)

5	17	10	24	6	36	21	47	9	29	38	42	4	13
2	11	31	43	9	34	23	1	14	28	3	46	16	26
0	20	18	4	22	40	39	5	41	13	2	37	48	39
3	25	12	19	48	17	6	15	39	4	50	26	43	52
1	24	6	15	31	44	9	27	0	14	34	18	49	65
7	20	5	30	14	3	49	36	8	37	41	4	25	78
5	42	9	26	3	38	8	19	32	4	45	23	50	91
1	17	0	24	46	15	3	40	34	21	7	47	13	104

OCPS

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ORLANDO, FLORIDA

see-write

Numerals (0-50)

5	17	10	24	6	36	21	47	9	29	38	42	4	30	7	45
2	11	31	43	9	34	23	1	14	28	3	46	16	22	8	32
0	20	18	4	22	40	39	5	41	13	2	37	48	8	33	44
3	25	12	19	48	17	6	15	39	4	50	26	43	35	10	21
1	24	6	15	31	44	9	27	0	14	34	18	49	8	42	50
7	20	5	30	14	3	49	36	8	37	41	4	25	11	22	47
5	42	9	26	3	38	8	19	32	4	45	23	50	33	44	12
1	17	0	24	46	15	3	40	34	21	7	47	13	31	2	29

16
32
48
64
80
96
112
128

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-say (Numerals (0-99)

N-9

43	70	47	9	85	59	23	19	68	53	12	65	79	13
83	7	95	25	76	14	35	90	77	1	48	94	58	26
46	66	62	88	4	69	8	27	93	49	45	97	38	39
0	26	60	3	22	72	72	54	10	86	17	36	51	52
84	44	87	24	32	71	64	16	61	99	82	30	73	65
6	92	33	21	82	52	5	67	78	2	86	74	13	78
40	95	67	13	32	52	81	63	42	73	98	23	15	91
41	56	94	24	65	46	50	27	57	33	48	89	39	104

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

N-10
Numerals (0-99)

43	70	47	9	85	59	23	19	68	53	12	65	79	83	7	95
25	76	14	35	90	77	1	48	94	58	46	66	62	88	4	69
8	27	93	49	45	97	38	0	26	60	3	22	72	54	10	86
17	36	51	84	44	87	24	32	71	64	16	61	99	82	30	73
6	92	33	21	82	52	5	67	78	2	86	74	13	40	95	67
13	32	52	81	63	42	73	98	23	15	41	56	94	24	65	46
50	27	57	33	48	89	39	64	55	76	11	83	96	7	29	91
31	51	64	18	3	41	75	56	20	34	14	61	43	80	98	28

16
32
48
64
80
96
112
128

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-say

Numerals (100-10,000)

828	1000	422	9683	763	8841	574	3852	256	10,000	10
494	1739	267	8241	225	7952	431	796	4963	1111	20
288	7452	997	6963	5877	339	3496	654	9999	413	30
985	1428	839	5876	6314	696	752	2913	179	3958	40
6363	585	5874	379	841	6785	9274	398	538	974	50
4172	142	3696	642	2849	193	761	7354	3142	413	60
389	4367	431	9785	822	7696	376	4785	255	2517	70
1424	214	1339	552	963	4270	551	5745	762	4162	80
3472	193	952	8386	328	9762	628	6852	795	1628	90
9998	213	8486	530	1388	615	2242	421	7841	652	100

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Numerals (100-10,000)

828	1000	422	9683	763	8841	574	3852	256	10,000
494	1739	267	8241	225	7952	431	796	4963	1111
288	7452	997	6963	5877	339	3496	654	9999	413
985	1428	839	5876	6314	696	752	2913	179	3958
6363	585	5874	379	841	6785	9274	398	538	974
4172	142	3696	642	2849	193	761	7354	3142	413
389	4367	431	9785	822	7696	376	4785	255	2517
1424	214	1339	552	963	4270	551	5745	762	4162
3472	193	952	8386	328	9762	628	6852	795	1628
9998	213	8486	530	1388	615	2242	421	7841	652

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60
70
80
90
100

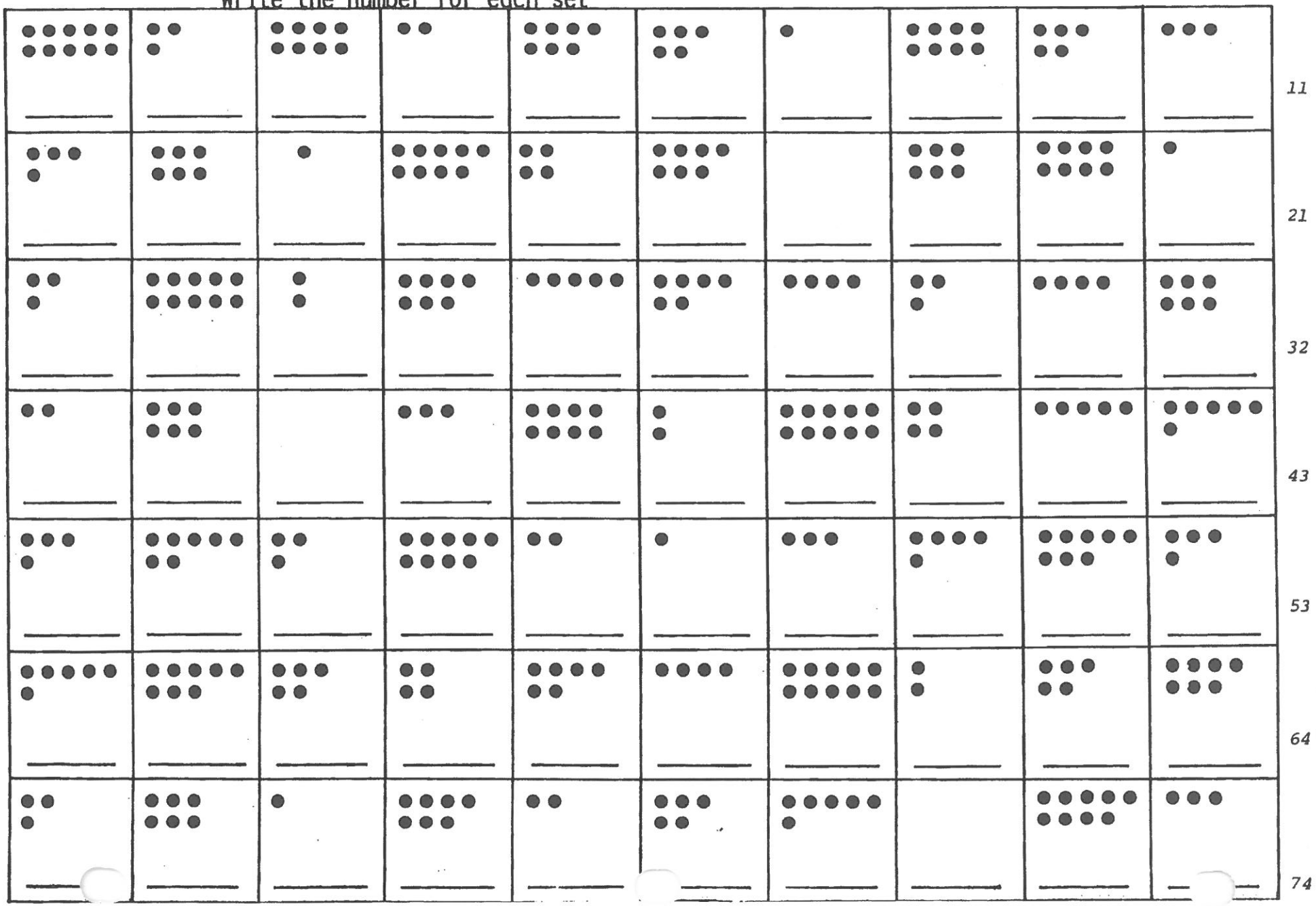
ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Roman Numerals (1-X)

1	6	3	9	5	8	4	10	16
8	1	7	3	9	10	2	4	34
3	7	10	6	4	2	5	9	50
6	5	4	8	2	7	9	1	67
7	2	10	5	6	1	3	4	82
10	4	9	2	1	4	6	8	98
2	8	5	3	6	9	7	1	116
4	3	5	7	6	2	10	8	134

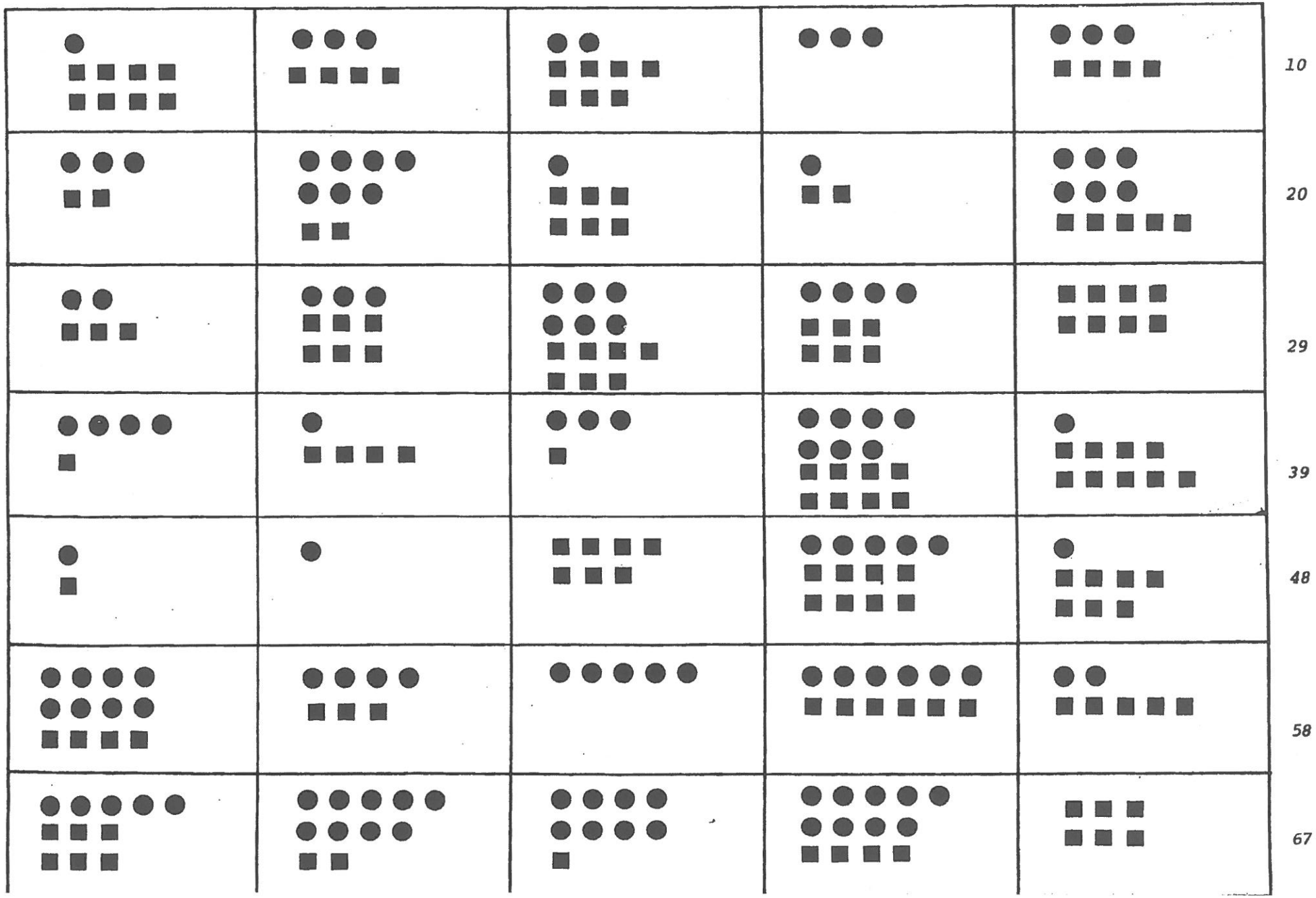
Write the number for each set



● 10
■ 1

see-write Sets - Numerals (0-100)*

Write the number for each set



ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

● 100
■ 10
□ 1

see-write

Sets - Numerals (0-1000)*

Write the number for each set

●●● ■■■	●●●● ■■■■■■ □□□□	●● ■■■■■ □□□□□	■ □□□	●● □□□ □□□	14
●● ■■■■	■■■■ ■■■■ □□□	●●●●● ●●●●●	● ■■ □□□□□□□	□□□□ □□	27
●●●● ●●●● ■	●●●●● ■■ □□□□□□□	■■■ □□□□□□□□	●●●●●● ■■■	●●● ●●● ■■■■■ ■■■	38
■■■■■■ □□□□	●●●●● ●●●● ■■■ □□□	●●●● ■■ □□□□□□□	●●●● ●●● ■ □□□	■■■■■■ □	49
● ■ □□□□□	□□□□□ □□□□	■■■■ □□□□	■■ □□□□□	● ■	60
●●●● ■■■■■ □□	●●● ■ □□□□□□	■ □□□□□□	●●●●● ●●●● ■ □□□□□	●●● ●● ■■ □□	74
■■■■ □□□□□□	●●●● □□□□	●●●●● ■■■■	■■■■■ ■■■■ □□□□ □□□□	●●●	87

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Numerals - Sets (0-10)

Write the dots for each number

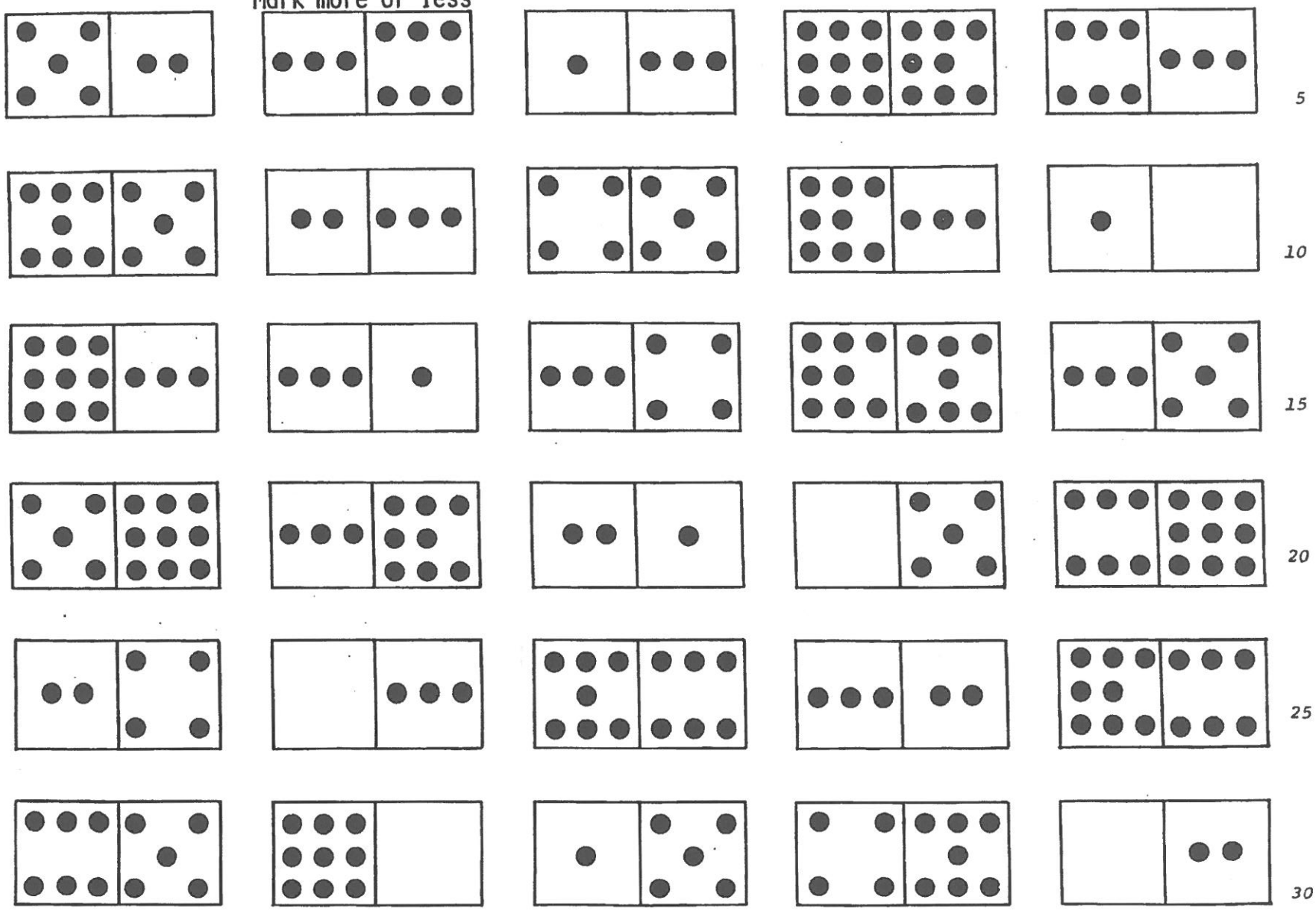
3	8	2	7	5	10	4	6	1	9	11
4	7	3	10	2	7	5	6	2	6	22
5	8	1	10	4	7	3	9	2	7	33
4	10	2	8	1	3	9	5	7	6	43
3	6	1	4	7	10	5	8	9	2	53
7	2	4	3	10	8	6	5	1	9	63
10	8	3	5	1	9	2	4	6	7	73

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-mark

Sets (more or less

Mark more or less

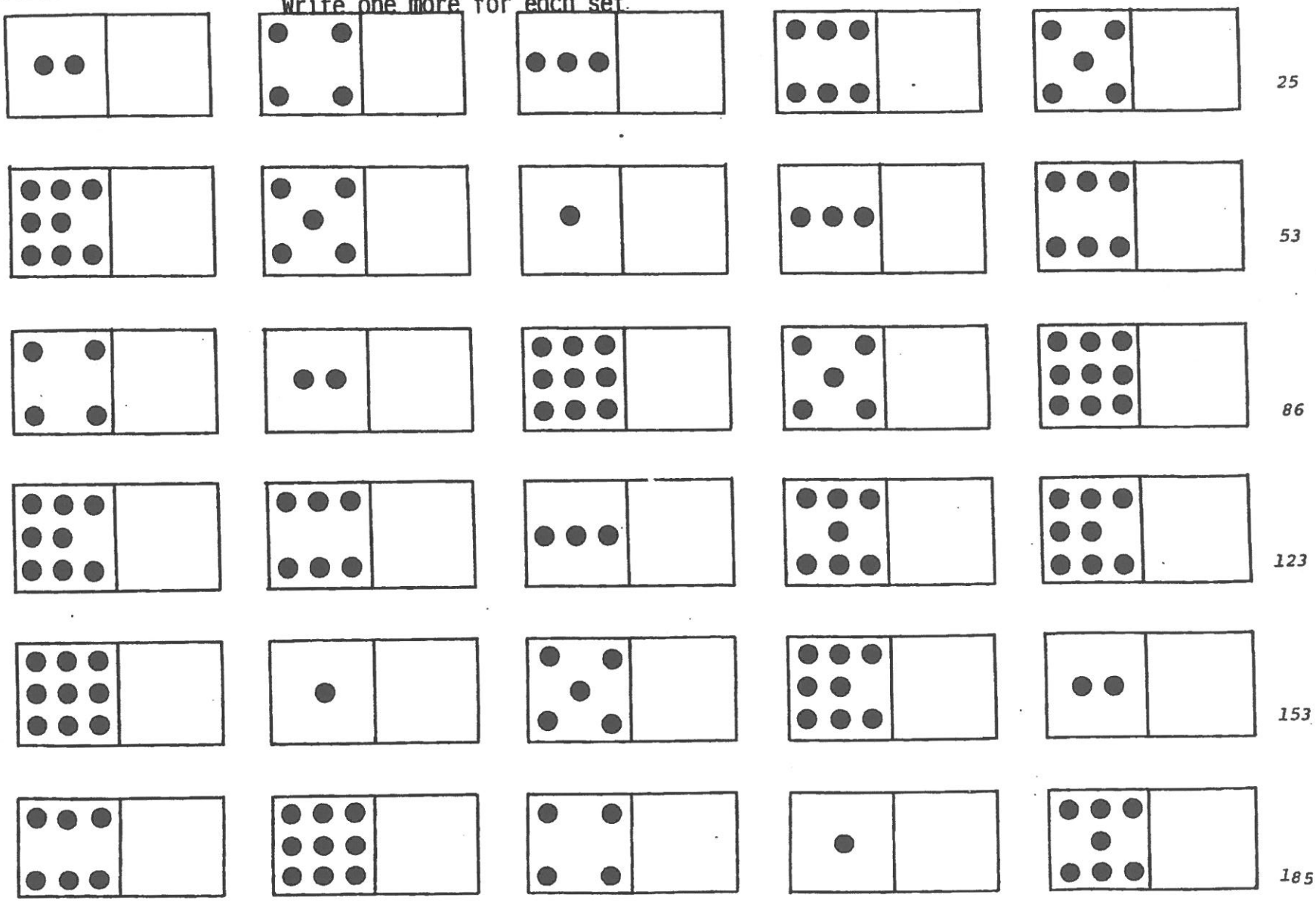


ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Sets (1 more)

Write one more for each set.

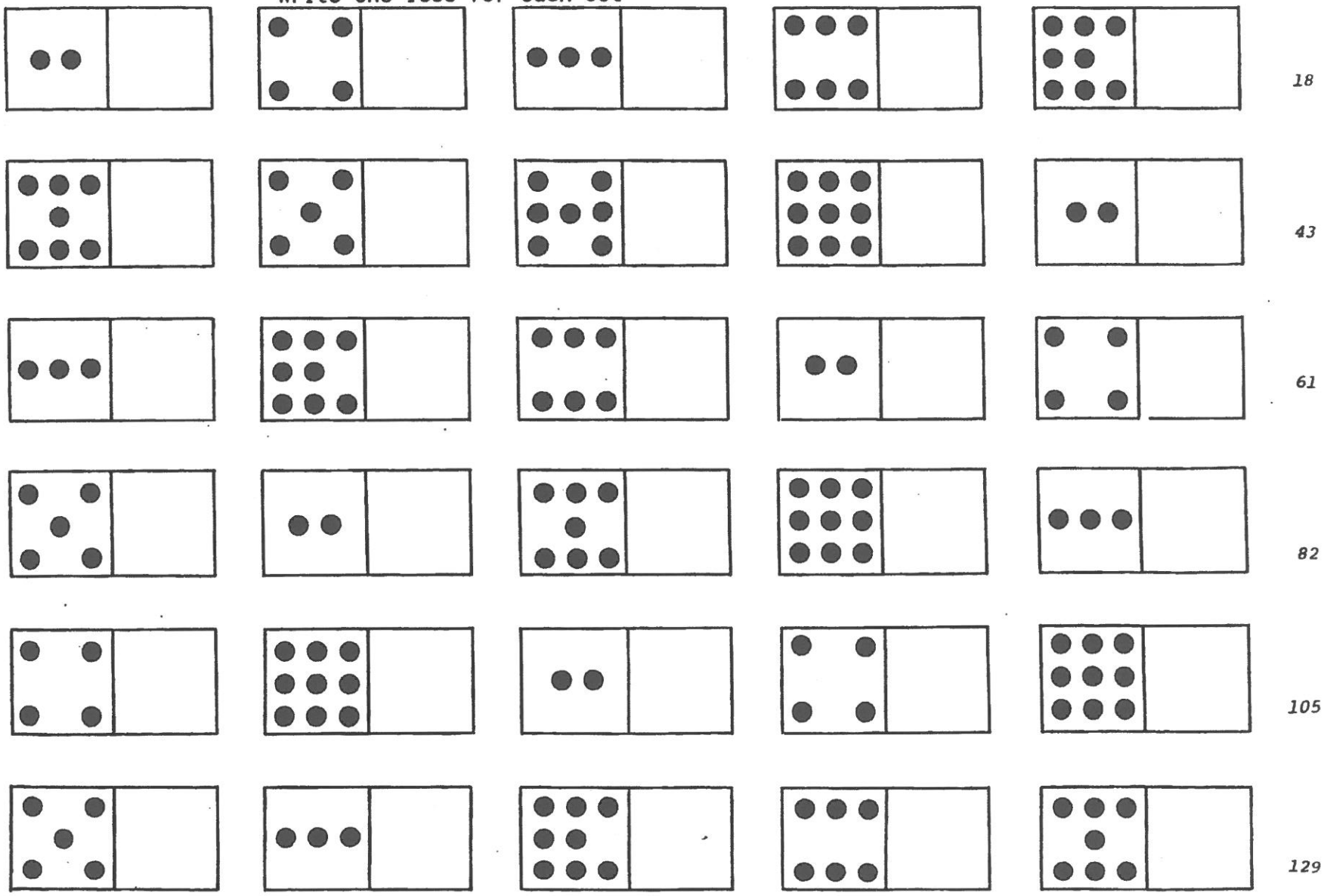


ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Sets (1 less)

Write one less for each set



18

43

61

82

105

129

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

N-21

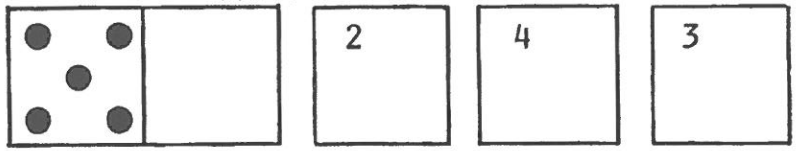
Numerals (1 more or 1 less)

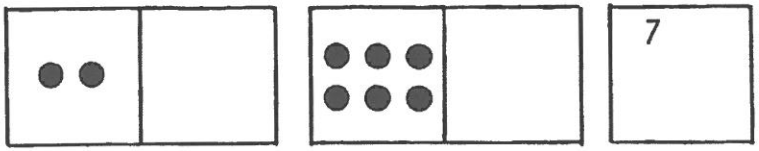
Write 1 more					Write 1 less					
3	8	2	7	5	10	4	6	1	9	10
4	7	6	10	1	9	5	3	2	8	21
2	9	5	8	3	7	1	4	10	6	32
4	6	3	7	10	2	5	9	1	8	43
1	8	9	2	5	3	10	6	4	7	54
2	9	3	10	6	4	1	7	5	8	65
5	1	7	3	9	2	6	8	4	10	76
4	10	2	8	6	5	3	9	7	1	86
1	4	6	7	5	2	9	10	8	3	97
3	2	8	10	9	1	6	5	7	4	108

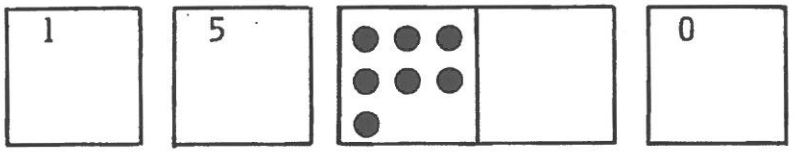
ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

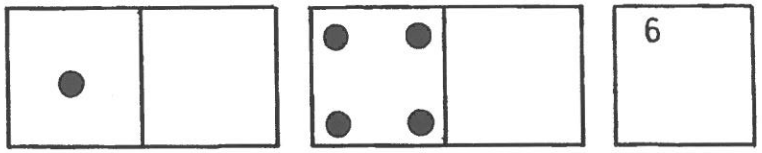
see-write Numerals or Sets (1 more or 1 less)

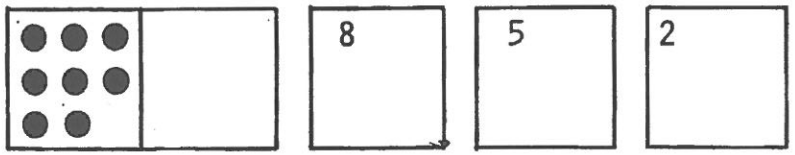
Write 1 more

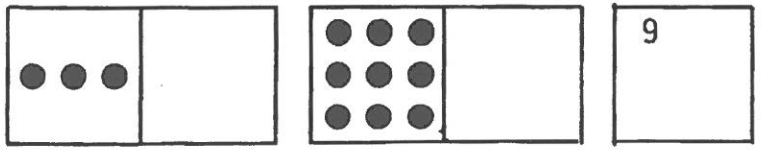




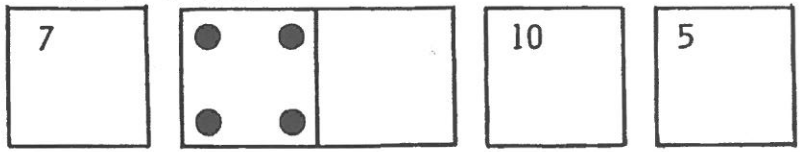




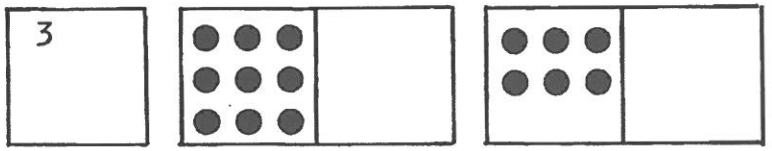




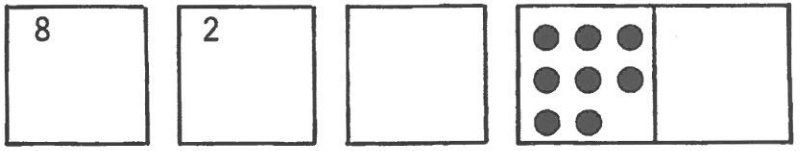
Write 1 less



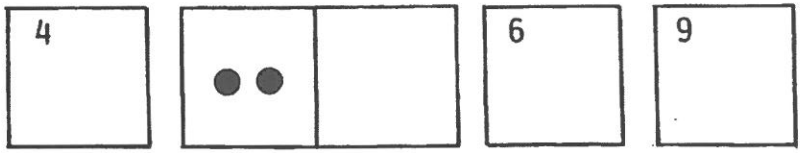
18



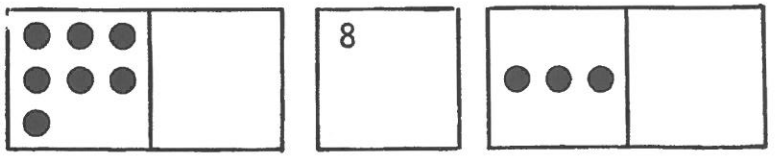
47



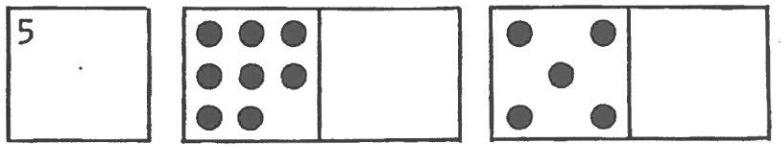
70



84



110



141

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-say

+, -, =

+	-	=	-	+	=	+	+	=	=	10
-	-	+	=	-	=	+	-	+	+	20
=	+	-	+	=	+	-	=	-	-	30
+	=	-	-	+	-	=	+	=	+	40
-	+	=	=	-	+	=	+	-	=	50
=	-	+	+	-	+	=	+	-	=	60
+	-	+	=	-	+	=	-	+	=	70
-	+	-	=	+	-	=	+	=	-	80
=	=	+	-	+	=	=	-	=	=	90
+	-	=	-	+	-	=	+	-	=	100

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-say

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10 20 30 40 50 60 70 80 90 100

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-say

+, −, =, >, <

−	+	>	<	=	<	+	−	>	=	10
=	>	<	−	+	>	−	<	=	+	20
>	<	−	+	=	−	>	+	<	−	30
=	−	+	>	<	<	=	+	>	−	40
<	>	+	=	−	+	−	=	<	>	50
=	+	−	+	>	<	>	=	−	<	60
−	=	<	>	+	=	−	>	<	+	70
+	−	=	<	>	>	<	+	−	+	80
<	>	=	+	−	+	=	+	>	<	90
−	=	>	+	>	<	−	=	+	−	100

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-mark

Smaller or Larger (0-10)

3, 10	9, 2	7, 1	4, 8	6, 5	2, 9	10, 7	4, 3	8
7, 9	2, 1	3, 10	8, 6	4, 5	7, 1	9, 10	2, 3	16
5, 4	3, 9	2, 10	6, 4	3, 4	8, 1	10, 2	9, 7	24
7, 10	9, 3	2, 8	5, 1	9, 10	1, 5	2, 3	7, 8	32
9, 1	7, 3	4, 8	5, 2	3, 5	2, 8	9, 4	7, 6	40
5, 8	1, 6	10, 3	6, 2	4, 1	3, 7	9, 5	1, 9	48
6, 7	8, 3	2, 4	5, 9	1, 10	7, 6	7, 9	10, 3	56
2, 7	10. 8	3, 5	6, 9	2, 6	3, 7	3, 1	5, 2	64
1, 8	4, 1	5, 4	8, 6	3, 6	4, 6	6, 10	1, 10	72
2, 3	9, 4	8, 3	4, 8	6, 4	7, 2	3, 2	2, 8	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

N-27
>, <, = (0-10)

7	2	8	4	6	10	5	5	4	6	8	6	6	5	7	7	8
7	1	10	1	4	6	1	1	3	6	5	4	1	8	9	2	16
0	0	3	6	9	7	2	3	4	3	9	9	3	10	7	1	24
2	4	6	5	2	9	10	7	2	2	0	9	2	1	6	8	32
4	5	1	7	4	4	1	8	7	4	10	2	6	6	3	4	40
3	3	10	2	7	10	9	3	2	8	5	1	9	10	8	5	48
2	3	9	1	7	3	4	8	5	2	5	3	4	4	1	2	56
6	1	8	8	3	10	4	9	6	2	4	1	4	10	0	1	64
5	8	9	4	6	4	10	10	2	6	5	5	8	10	9	5	72
9	2	2	2	4	2	7	10	3	4	4	1	3	5	8	4	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-mark

Smaller or Larger (0-20)*

6, 16	19, 5	12, 1	10, 11	18, 8	4, 3	17, 15	9, 7	8
14, 2	15, 17	9, 11	7, 13	16, 3	4, 5	12, 18	14, 6	16
2, 19	8, 10	11, 1	12, 6	2, 9	15, 10	4, 8	19, 18	24
3, 16	5, 17	7, 10	17, 9	1, 5	4, 14	3, 6	16, 8	32
18, 15	19, 12	11, 2	9, 7	2, 12	6, 19	18, 15	17, 1	40
11, 3	8, 5	10, 4	16, 14	6, 9	19, 7	7, 12	15, 14	48
3, 2	16, 4	18, 11	5, 10	8, 1	14, 8	4, 3	11, 13	56
6, 17	10, 5	2, 7	18, 16	12, 19	9, 15	12, 6	19, 10	64
1, 18	14, 11	4, 5	7, 17	3, 15	16, 2	9, 8	1, 8	72
5, 19	6, 15	2, 10	12, 11	7, 4	3, 14	17, 9	16, 18	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

>, <, = (0-20)

2	5	17	18	1	3	4	14	7	8	9	2	16	16	10	17	8
6	5	19	10	12	18	11	19	15	6	16	14	4	1	9	9	16
12	7	3	8	6	3	18	15	14	12	11	11	15	4	5	5	24
7	6	8	7	17	18	10	10	19	9	1	19	2	11	3	4	32
5	12	13	14	6	17	8	16	12	1	10	8	19	2	2	15	40
11	3	7	7	18	12	4	19	16	9	15	14	14	10	9	17	48
17	5	4	15	1	1	8	6	5	8	13	18	11	4	17	2	56
12	3	19	16	18	6	6	14	15	1	7	16	16	4	14	10	64
9	9	10	5	17	2	19	15	12	17	10	12	18	8	6	18	72
8	3	4	7	16	19	1	11	3	4	14	17	5	7	11	16	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-mark

N-30
Smaller or Larger (0-50)

0, 50	45, 7	37, 27	19, 33	35, 6	23, 24	5, 4	21, 22	8
16, 15	7, 18	36, 47	40, 26	12, 11	29, 41	46, 13	25, 30	16
1, 3	44, 2	43, 50	3, 2	34, 10	25, 24	10, 19	20, 47	24
41, 43	2, 38	27, 25	14, 11	27, 19	34, 36	0, 1	15, 16	32
40, 26	17, 18	36, 47	29, 41	10, 32	9, 4	13, 42	14, 39	40
8, 46	45, 7	0, 50	13, 12	19, 33	16, 12	28, 30	3, 9	48
37, 27	14, 26	42, 38	7, 18	31, 33	39, 2	50, 0	47, 2	56
35, 4	21, 36	9, 8	49, 48	40, 36	44, 50	41, 39	17, 23	64
32, 11	27, 24	2, 38	3, 5	43, 8	15, 21	8, 9	3, 19	72
29, 30	5, 16	3, 20	18, 24	44, 13	39, 14	19, 10	12, 37	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

N-31

>, <, = (0-50)

22	5	30	40	18	8	40	19	10	10	31	33	17	18	19	10	8
27	17	11	19	19	26	16	9	6	18	5	5	18	15	12	12	16
2	37	50	7	10	17	16	16	1	3	15	6	16	12	6	5	24
4	14	0	50	33	33	18	8	14	10	15	15	19	27	9	9	32
7	8	9	2	17	20	42	42	16	14	11	40	8	8	36	47	40
20	20	27	18	13	18	48	32	21	21	32	38	28	30	47	2	48
34	10	15	19	46	34	11	11	25	16	44	21	5	22	10	18	56
5	7	3	3	40	8	3	35	24	31	14	13	12	21	22	19	64
43	22	20	9	25	25	42	18	13	17	23	32	3	30	0	0	72
2	0	12	7	50	4	4	4	16	49	19	19	48	50	46	21	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-mark

Smaller or Larger (0-100)

35, 6	21, 22	9, 8	67, 72	36, 47	76, 67	23, 24	1, 3	8
44, 2	92, 84	0, 50	14, 11	19, 33	16, 15	12, 11	28, 30	16
5, 8	83, 57	43, 50	63, 26	55, 15	34, 10	82, 28	25, 24	24
16, 61	58, 56	37, 27	24, 36	62, 59	27, 29	5, 4	25, 26	32
13, 10	76, 85	62, 78	40, 26	32, 96	12, 9	29, 41	64, 48	40
91, 92	46, 82	74, 47	15, 12	27, 19	34, 36	0, 1	48, 84	48
54, 45	19, 91	22, 90	38, 49	98, 97	78, 87	6, 2	98, 89	56
68, 52	84, 96	88, 78	3, 2	37, 73	31, 33	98, 100	57, 55	64
49, 50	42, 41	79, 80	65, 96	7, 9	18, 24	72, 50	87, 19	72
99, 28	100, 99	8, 9	69, 68	55, 68	70, 66	90, 96	1, 3	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

N-33

see-write

>, <, = (0-100)

87	19	43	50	26	26	90	96	70	66	55	68	69	68	42	42	8
19	10	89	89	87	19	30	30	18	24	9	9	65	96	79	80	16
88	78	30	20	57	55	98	100	37	37	37	73	3	2	56	56	24
28	29	65	96	98	89	5	4	78	87	98	97	78	78	22	90	32
20	10	17	18	48	84	95	95	34	36	27	19	14	11	74	47	40
28	30	82	80	62	48	29	41	12	11	32	96	59	59	62	78	48
49	48	22	22	30	41	54	56	23	24	62	59	19	33	73	73	56
60	79	20	47	25	24	82	28	34	10	55	15	62	26	43	50	64
10	19	3	2	28	30	12	11	16	15	19	33	14	11	92	92	72
42	38	94	95	1	3	28	24	31	31	36	47	67	72	9	8	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Numeral Sequence (0-10)

0	1		3	4		6	7		9	10		1	2	
4		6	7		9		0	1		3		5	6	
8			0		2		4		6		8		10	
1		3		5		7			10		1			4
5		7		9					3		5			
9			1					6		8	9		0	1
2		4	5		7				0			3		
6			9				2					7		
10				3	4	5				9				
		5				9			1				5	

5
11
19
27
37
45
54
65
75
86

The student writes numbers in correct sequence. One correct count is given for each numeral written in correct order. Two digit numbers, such as 21, are counted as two correct answers. Any omissions are counted as errors.

Example - Numerals 0-50. If the student's written response in one minute is 0, 1, 2, 3, 4, 5, 9, 10, 11, 12, 14, 15, 16, 20, 21, 22..... The count would be 16 correct and 7 incorrect.

(Numerals 0-9)

see-trace

0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-mark
hear-mark

N-36 & N-37

Ordinals (1st-10th)*

TENTH	0 0 0 0 0 0 0 0 0 0	SEVENTH	0 0 0 0 0 0 0 0 0 0	FIFTH	0 0 0 0 0 0 0 0 0 0 3
FIRST	0 0 0 0 0 0 0 0 0 0	SECOND	0 0 0 0 0 0 0 0 0 0	NINTH	0 0 0 0 0 0 0 0 0 0 6
SIXTH	0 0 0 0 0 0 0 0 0 0	THIRD	0 0 0 0 0 0 0 0 0 0	FOURTH	0 0 0 0 0 0 0 0 0 0 9
FIRST	0 0 0 0 0 0 0 0 0 0	FIRST	0 0 0 0 0 0 0 0 0 0	EIGHTH	0 0 0 0 0 0 0 0 0 0 12
THIRD	0 0 0 0 0 0 0 0 0 0	FOURTH	0 0 0 0 0 0 0 0 0 0	FIFTH	0 0 0 0 0 0 0 0 0 0 15
SECOND	0 0 0 0 0 0 0 0 0 0	FIFTH	0 0 0 0 0 0 0 0 0 0	NINTH	0 0 0 0 0 0 0 0 0 0 18
EIGHTH	0 0 0 0 0 0 0 0 0 0	SEVENTH	0 0 0 0 0 0 0 0 0 0	FIRST	0 0 0 0 0 0 0 0 0 0 21
SECOND	0 0 0 0 0 0 0 0 0 0	TENTH	0 0 0 0 0 0 0 0 0 0	SIXTH	0 0 0 0 0 0 0 0 0 0 24
FIRST	0 0 0 0 0 0 0 0 0 0	FOURTH	0 0 0 0 0 0 0 0 0 0	THIRD	0 0 0 0 0 0 0 0 0 0 27
FIFTH	0 0 0 0 0 0 0 0 0 0	SECOND	0 0 0 0 0 0 0 0 0 0	SIXTH	0 0 0 0 0 0 0 0 0 0 30
SEVENTH	0 0 0 0 0 0 0 0 0 0	SIXTH	0 0 0 0 0 0 0 0 0 0	EIGHTH	0 0 0 0 0 0 0 0 0 0 33
SECOND	0 0 0 0 0 0 0 0 0 0	TENTH	0 0 0 0 0 0 0 0 0 0	NINTH	0 0 0 0 0 0 0 0 0 0 36
FOURTH	0 0 0 0 0 0 0 0 0 0	FIFTH	0 0 0 0 0 0 0 0 0 0	THIRD	0 0 0 0 0 0 0 0 0 0 39
NINTH	0 0 0 0 0 0 0 0 0 0	FOURTH	0 0 0 0 0 0 0 0 0 0	FIRST	0 0 0 0 0 0 0 0 0 0 42
TENTH	0 0 0 0 0 0 0 0 0 0	EIGHTH	0 0 0 0 0 0 0 0 0 0	SIXTH	0 0 0 0 0 0 0 0 0 0 45
SECOND	0 0 0 0 0 0 0 0 0 0	FIFTH	0 0 0 0 0 0 0 0 0 0	THIRD	0 0 0 0 0 0 0 0 0 0 48
SEVENTH	0 0 0 0 0 0 0 0 0 0	SECOND	0 0 0 0 0 0 0 0 0 0	FIRST	0 0 0 0 0 0 0 0 0 0 51
THIRD	0 0 0 0 0 0 0 0 0 0	SIXTH	0 0 0 0 0 0 0 0 0 0	SEVENTH	0 0 0 0 0 0 0 0 0 0 54
TENTH	0 0 0 0 0 0 0 0 0 0	EIGHTH	0 0 0 0 0 0 0 0 0 0	FOURTH	0 0 0 0 0 0 0 0 0 0 57
SECOND	0 0 0 0 0 0 0 0 0 0	NINTH	0 0 0 0 0 0 0 0 0 0	FIFTH	0 0 0 0 0 0 0 0 0 0 60

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-mark

Ordinals (11th-99th)*

TWELFTH	11th 0 0 0 0 0	SIXTY-SECOND	61st 0 0 0 0 0	TWENTY-THIRD	21st 0 0 0 0 0	3
THIRTY-FOURTH	31st 0 0 0 0 0	ELEVENTH	10th 0 0 0 0 0	SEVENTY-SEVENTH	75th 0 0 0 0 0	6
FIFTEENTH	11th 0 0 0 0 0	EIGHTY-FOURTH	81st 0 0 0 0 0	THIRTY-THIRD	31st 0 0 0 0 0	9
FORTY-SIXTH	42nd 0 0 0 0 0	NINETY-FIFTH	91st 0 0 0 0 0	EIGHTY-SIXTH	82nd 0 0 0 0 0	12
TWENTY-FIRST	20th 0 0 0 0 0	FOURTIETH	36th 0 0 0 0 0	FORTY-SEVENTH	45th 0 0 0 0 0	15
FIFTY-SEVENTH	56th 0 0 0 0 0	FOURTEENTH	11th 0 0 0 0 0	SEVENTY-THIRD	71st 0 0 0 0 0	18
NINETEENTH	16th 0 0 0 0 0	SEVENTIETH	66th 0 0 0 0 0	TWENTY-EIGHTH	26th 0 0 0 0 0	21
NINETY-FIRST	90th 0 0 0 0 0	SIXTEENTH	15th 0 0 0 0 0	THIRTIETH	26th 0 0 0 0 0	24
THIRTEENTH	11th 0 0 0 0 0	EIGHTY-SECOND	80th 0 0 0 0 0	NINETY-NINTH	96th 0 0 0 0 0	27
SEVENTY-EIGHT	68th 0 0 0 0 0	SEVENTEENTH	15th 0 0 0 0 0	SIXTY-FIFTH	61st 0 0 0 0 0	30
EIGHTEENTH	16th 0 0 0 0 0	FIFTY-FIRST	50th 0 0 0 0 0	TWENTY-FOURTH	21st 0 0 0 0 0	33
NINETIETH	86th 0 0 0 0 0	SEVENTY-FOURTH	71st 0 0 0 0 0	THIRTY-NINTH	36th 0 0 0 0 0	36
FIFTY-THIRD	51st 0 0 0 0 0	FORTY-EIGHTH	46th 0 0 0 0 0	SEVENTY-FOURTH	71st 0 0 0 0 0	39
FIFTEENTH	11th 0 0 0 0 0	TWENTY-SIXTH	25th 0 0 0 0 0	NINETY-FIFTH	91st 0 0 0 0 0	42
SIXTY-SEVENTH	71st 0 0 0 0 0	THIRTY-SECOND	31st 0 0 0 0 0	ELEVENTH	10th 0 0 0 0 0	45
EIGHTY-EIGHTH	86th 0 0 0 0 0	TWENTY-THIRD	21st 0 0 0 0 0	SEVENTY-NINTH	76th 0 0 0 0 0	48
FORTY-SIXTH	45th 0 0 0 0 0	FIFTY-SEVENTH	56th 0 0 0 0 0	TWELFTH	11th 0 0 0 0 0	51
NINETY-THIRD	91st 0 0 0 0 0	THIRTY-EIGHTH	36th 0 0 0 0 0	SIXTY-FOURTH	61st 0 0 0 0 0	54
FIFTEENTH	11th 0 0 0 0 0	SEVENTIETH	76th 0 0 0 0 0	THIRTY-FIRST	30th 0 0 0 0 0	57
EIGHTY-SEVENTH	86th 0 0 0 0 0	NINETY-FOURTH	91st 0 0 0 0 0	SIXTY-THIRD	61st 0 0 0 0 0	60

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Before, After (0-10)

___ 10	___ 5	4 ___	2 ___	___ 7	1 ___	___ 8	3 ___	8
6 ___	9 ___	___ 3	5 ___	8 ___	___ 2	___ 1	0 ___	16
___ 3	8 ___	___ 1	7 ___	___ 2	___ 4	5 ___	___ 10	24
0 ___	2 ___	___ 6	1 ___	___ 8	___ 5	___ 9	3 ___	32
___ 7	___ 3	4 ___	___ 1	9 ___	6 ___	8 ___	___ 10	40
2 ___	___ 5	___ 8	7 ___	1 ___	___ 6	3 ___	___ 4	48
___ 9	1 ___	___ 10	5 ___	4 ___	___ 2	___ 3	___ 7	56
6 ___	___ 8	___ 5	7 ___	9 ___	___ 4	3 ___	___ 2	64
___ 1	10 ___	4 ___	___ 9	2 ___	___ 6	8 ___	___ 3	72
5 ___	___ 7	9 ___	___ 2	1 ___	___ 4	___ 3	6 ___	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

N-39a

Before (0-10)

___ 8	___ 2	___ 4	___ 7	___ 9	___ 3	___ 5	___ 10	8
___ 1	___ 6	___ 10	___ 4	___ 8	___ 5	___ 2	___ 7	16
___ 3	___ 9	___ 5	___ 2	___ 4	___ 7	___ 6	___ 1	24
___ 10	___ 8	___ 9	___ 1	___ 6	___ 3	___ 4	___ 2	32
___ 5	___ 7	___ 10	___ 3	___ 9	___ 4	___ 2	___ 8	40
___ 6	___ 1	___ 7	___ 2	___ 5	___ 8	___ 4	___ 10	48
___ 9	___ 3	___ 1	___ 6	___ 4	___ 7	___ 5	___ 2	56
___ 8	___ 10	___ 2	___ 4	___ 3	___ 6	___ 1	___ 9	64
___ 7	___ 5	___ 10	___ 8	___ 4	___ 2	___ 6	___ 1	72
___ 3	___ 2	___ 9	___ 10	___ 5	___ 7	___ 4	___ 8	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

After (0-10)

10 ___	5 ___	3 ___	9 ___	7 ___	4 ___	2 ___	8 ___	8
6 ___	1 ___	7 ___	2 ___	5 ___	8 ___	4 ___	0 ___	16
9 ___	3 ___	1 ___	6 ___	7 ___	4 ___	2 ___	5 ___	24
8 ___	0 ___	2 ___	4 ___	3 ___	6 ___	1 ___	9 ___	32
7 ___	5 ___	8 ___	2 ___	4 ___	9 ___	3 ___	0 ___	40
1 ___	6 ___	0 ___	4 ___	8 ___	5 ___	2 ___	7 ___	48
3 ___	9 ___	2 ___	5 ___	7 ___	4 ___	6 ___	1 ___	56
0 ___	8 ___	9 ___	1 ___	6 ___	3 ___	4 ___	2 ___	64
5 ___	7 ___	1 ___	6 ___	2 ___	4 ___	8 ___	0 ___	72
2 ___	3 ___	8 ___	4 ___	7 ___	5 ___	0 ___	9 ___	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Before, After (0-20)

___ 20	___ 5	2 ___	13 ___	12 ___	0 ___	5 ___	___ 15	8
19 ___	___ 3	___ 6	___ 11	5 ___	9 ___	4 ___	1 ___	16
___ 18	7 ___	8 ___	___ 10	14 ___	___ 16	20 ___	___ 17	24
15 ___	___ 5	0 ___	___ 12	___ 13	___ 2	5 ___	20 ___	32
___ 1	___ 4	___ 9	___ 5	11 ___	6 ___	3 ___	___ 19	40
17 ___	20 ___	16 ___	___ 14	10 ___	___ 8	___ 7	18 ___	48
12 ___	___ 15	___ 20	5 ___	13 ___	___ 12	2 ___	0 ___	56
9 ___	19 ___	___ 6	___ 4	5 ___	___ 11	1 ___	___ 3	64
___ 10	___ 17	7 ___	20 ___	14 ___	8 ___	___ 16	___ 18	72
___ 19	___ 1	6 ___	3 ___	___ 15	13 ___	9 ___	___ 7	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Before (0-20)

___ 4	___ 12	___ 18	___ 11	___ 5	___ 3	___ 19	___ 10	*8*
___ 17	___ 2	___ 14	___ 1	___ 7	___ 16	___ 8	___ 15	*16*
___ 6	___ 9	___ 13	___ 20	___ 10	___ 15	___ 19	___ 8	*24*
___ 3	___ 16	___ 5	___ 7	___ 11	___ 1	___ 18	___ 14	*32*
___ 12	___ 2	___ 4	___ 17	___ 9	___ 20	___ 6	___ 13	*40*
___ 11	___ 10	___ 18	___ 4	___ 19	___ 7	___ 12	___ 3	*48*
___ 1	___ 15	___ 17	___ 7	___ 2	___ 8	___ 14	___ 16	*56*
___ 20	___ 8	___ 6	___ 10	___ 13	___ 9	___ 15	___ 19	*64*
___ 2	___ 7	___ 8	___ 17	___ 1	___ 16	___ 20	___ 10	*72*
___ 15	___ 9	___ 12	___ 19	___ 11	___ 6	___ 18	___ 5	*80*

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

N-40b

see-write

After (0-20)

10 ___	19 ___	3 ___	5 ___	11 ___	18 ___	12 ___	4 ___	8
15 ___	8 ___	16 ___	7 ___	1 ___	14 ___	2 ___	17 ___	16
20 ___	6 ___	13 ___	9 ___	8 ___	19 ___	15 ___	10 ___	24
14 ___	18 ___	1 ___	11 ___	7 ___	5 ___	16 ___	3 ___	32
13 ___	6 ___	20 ___	9 ___	17 ___	4 ___	2 ___	12 ___	40
3 ___	4 ___	7 ___	19 ___	12 ___	18 ___	10 ___	11 ___	48
16 ___	14 ___	8 ___	2 ___	7 ___	17 ___	15 ___	1 ___	56
19 ___	15 ___	9 ___	13 ___	10 ___	6 ___	8 ___	20 ___	64
10 ___	7 ___	16 ___	1 ___	17 ___	8 ___	20 ___	2 ___	72
5 ___	18 ___	6 ___	11 ___	19 ___	12 ___	9 ___	15 ___	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Before, After (0-50)

___ 40	___ 47	38 ___	27 ___	___ 1	19 ___	___ 50	43 ___	8
15 ___	42 ___	___ 5	___ 17	2 ___	8 ___	___ 33	18 ___	16
___ 32	___ 3	10 ___	12 ___	___ 24	13 ___	0 ___	___ 35	24
39 ___	6 ___	___ 26	___ 29	16 ___	37 ___	___ 34	20 ___	32
___ 25	___ 31	4 ___	44 ___	___ 21	48 ___	___ 7	45 ___	40
30 ___	28 ___	___ 46	___ 50	23 ___	32 ___	___ 17	9 ___	48
___ 10	22 ___	14 ___	35 ___	___ 49	20 ___	___ 36	41 ___	56
8 ___	11 ___	___ 43	___ 50	___ 19	1 ___	___ 27	___ 38	64
___ 18	33 ___	8 ___	___ 2	17 ___	5 ___	___ 42	___ 15	72
___ 45	& ___	___ 48	21 ___	___ 44	___ 4	31 ___	25 ___	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

N-41a

Before (0-50)

___ 50	___ 24	___ 40	___ 1	___ 47	___ 19	___ 38	___ 43	8
___ 17	___ 42	___ 8	___ 18	___ 15	___ 33	___ 2	___ 5	16
___ 12	___ 35	___ 3	___ 12	___ 24	___ 32	___ 13	___ 6	24
___ 29	___ 20	___ 16	___ 39	___ 26	___ 37	___ 34	___ 38	32
___ 21	___ 4	___ 45	___ 31	___ 48	___ 7	___ 25	___ 44	40
___ 50	___ 9	___ 30	___ 23	___ 28	___ 17	___ 46	___ 32	48
___ 49	___ 10	___ 41	___ 22	___ 35	___ 20	___ 36	___ 14	56
___ 19	___ 38	___ 8	___ 50	___ 43	___ 1	___ 27	___ 11	64
___ 17	___ 42	___ 18	___ 15	___ 5	___ 33	___ 8	___ 2	72
___ 44	___ 25	___ 7	___ 45	___ 21	___ 4	___ 31	___ 48	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

N-41b

After (0-50)

43 ___	38 ___	19 ___	47 ___	1 ___	40 ___	27 ___	0 ___	*8*
5 ___	2 ___	33 ___	15 ___	18 ___	8 ___	42 ___	17 ___	*16*
6 ___	13 ___	32 ___	24 ___	12 ___	3 ___	35 ___	12 ___	*24*
38 ___	34 ___	37 ___	26 ___	39 ___	16 ___	20 ___	29 ___	*32*
44 ___	25 ___	7 ___	48 ___	31 ___	45 ___	4 ___	21 ___	*40*
32 ___	46 ___	17 ___	28 ___	23 ___	30 ___	9 ___	0 ___	*48*
14 ___	36 ___	20 ___	35 ___	22 ___	41 ___	10 ___	49 ___	*56*
11 ___	27 ___	1 ___	43 ___	0 ___	8 ___	38 ___	19 ___	*64*
2 ___	8 ___	33 ___	5 ___	15 ___	18 ___	42 ___	17 ___	*72*
48 ___	31 ___	4 ___	21 ___	45 ___	7 ___	25 ___	44 ___	*80*

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Before & After (0-100)*

___ 54	___ 10	69 ___	57 ___	___ 74	46 ___	65 ___	___ 88	8
66 ___	___ 92	___ 86	___ 73	95 ___	91 ___	___ 62	___ 45	16
___ 53	___ 90	71 ___	1 ___	___ 13	81 ___	97 ___	___ 21	24
80 ___	___ 37	0 ___	58 ___	___ 31	78 ___	93 ___	___ 79	32
49 ___	___ 94	___ 32	___ 72	34 ___	68 ___	___ 74	___ 52	40
___ 12	___ 35	51 ___	27 ___	___ 43	5 ___	41 ___	___ 11	48
98 ___	___ 26	___ 87	___ 50	82 ___	55 ___	19 ___	___ 85	56
___ 33	___ 24	39 ___	9 ___	___ 59	77 ___	8 ___	___ 84	64
52 ___	___ 14	___ 15	___ 47	70 ___	96 ___	___ 4	___ 42	72
___ 18	___ 23	99 ___	6 ___	___ 48	3 ___	36 ___	___ 2	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

N-42a

see-write

Before (0-100)*

___ 60	___ 29	___ 83	___ 38	___ 17	___ 30	___ 7	___ 56	8
___ 2	___ 36	___ 48	___ 6	___ 99	___ 23	___ 16	___ 3	16
___ 42	___ 44	___ 96	___ 25	___ 70	___ 47	___ 15	___ 57	24
___ 88	___ 54	___ 65	___ 10	___ 46	___ 69	___ 74	___ 52	32
___ 45	___ 66	___ 92	___ 62	___ 91	___ 86	___ 95	___ 73	40
___ 21	___ 53	___ 97	___ 90	___ 81	___ 13	___ 1	___ 71	48
___ 79	___ 80	___ 93	___ 37	___ 31	___ 78	___ 99	___ 58	56
___ 52	___ 49	___ 75	___ 100	___ 94	___ 34	___ 68	___ 32	64
___ 11	___ 41	___ 12	___ 43	___ 5	___ 35	___ 51	___ 27	72
___ 85	___ 98	___ 26	___ 19	___ 50	___ 82	___ 55	___ 87	80

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

After (0-100)*

2 ___	36 ___	3 ___	48 ___	6 ___	99 ___	23 ___	18 ___	8
42 ___	4 ___	96 ___	70 ___	47 ___	15 ___	52 ___	84 ___	16
8 ___	77 ___	59 ___	9 ___	39 ___	24 ___	33 ___	85 ___	24
19 ___	55 ___	82 ___	50 ___	87 ___	26 ___	98 ___	11 ___	32
41 ___	5 ___	43 ___	27 ___	51 ___	35 ___	12 ___	52 ___	40
75 ___	68 ___	34 ___	72 ___	32 ___	94 ___	49 ___	79 ___	48
93 ___	78 ___	31 ___	58 ___	0 ___	37 ___	80 ___	21 ___	56
97 ___	81 ___	13 ___	1 ___	71 ___	90 ___	53 ___	45 ___	64
62 ___	91 ___	95 ___	73 ___	86 ___	92 ___	66 ___	88 ___	72
65 ___	46 ___	74 ___	57 ___	69 ___	10 ___	54 ___	82 ___	80

DIRECTIONS:

The students count orally by 5's, 10's, 2's, 3's, 4's to 100 repeatedly for one minute. One correct count is given for each numeral the student says in correct sequence. Two digit numbers are counted as one correct answer. Any omissions are counted as errors.

Example: Count by 5's to 100. If the student's oral response in one minute is 5, 10, 15, 25, 30, 35, 45, 55, 60, 65, 80, 85, 90, 95, 100. 5, 10, 15, 20, 40, 45, 50, 55, 60, 65, 70. The count would be 26 correct and 8 incorrect.

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Count by's (5's to 100)

5	10			25		35	40		50			65			8
80		90			5			20		30		40			17
55			70				90		100				20		27
30							65		75			90			38
	10			25					50		60	65			48
80			95					20				40			59
55		65						95				15			70
	35		45							80				100	87
5			20			35								75	92
80				100										50	104

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Count by's (10's to 100)

10	20			50	60		80			10			40		8
		80				20			50				90		19
10					60	70			100	10			40		28
60			90			20		40			70			100	37
10			40					90		10		30		50	46
60		80		100				40				80			56
	20		40				80			10				50	66
60			90			20					70			100	76
10				50			80				20			50	86
			90		10					60					98

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Count by's (2's to 100)

2	4			10	12		16			22			28		8
		36			42			48			54		58		18
62			68			74			80		84		88		27
	94		98			4			10				18		37
22		26				32			38			44			47
50			56		60		64			70				78	56
	82			88		92		96			2			8	65
	12			18			24		28			34			75
40		44			50				58				66		85
70					80					90					97

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Numeral Sequence (0-1000)*

WRITE NUMBERS IN CORRECT ORDER

770	669	661	___	___	___	896	891	895	___	___	___ 18
352	123	406	___	___	___	564	472	303	___	___	___ 36
986	994	991	___	___	___	636	782	734	___	___	___ 54
922	978	828	___	___	___	555	323	492	___	___	___ 72
211	142	179	___	___	___	654	494	411	___	___	___ 90
863	872	817	___	___	___	241	193	365	___	___	___ 108
946	933	879	___	___	___	345	581	444	___	___	___ 126
585	698	358	___	___	___	379	785	541	___	___	___ 144
134	111	122	___	___	___	919	906	934	___	___	___ 162
333	241	238	___	___	___	431	482	427	___	___	___ 180
852	925	901	___	___	___	582	639	592	___	___	___ 198
213	182	173	___	___	___	740	738	755	___	___	___ 216

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Number Word to Numeral (0-10)*

three	ten	nine	two	seven	one	eight	four	six	zero
nine	two	ten	seven	four	three	one	eight	six	five
seven	nine	two	one	three	ten	six	eight	four	five
one	seven	nine	ten	two	three	five	four	eight	six
seven	five	one	eight	three	nine	two	ten	six	zero
three	four	eight	one	ten	two	nine	seven	five	six
four	six	seven	ten	nine	three	two	eight	five	one
nine	ten	five	one	two	three	zero	eight	four	six
six	ten	nine	one	seven	three	four	eight	five	two
three	five	eight	four	two	one	seven	ten	six	nine

11
22
33
44
55
66
77
88
99
110

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Number Word to Numeral (0-20)

thirteen	eleven	five	seven	one	three	four	six	fifteen	twenty
twelve	seventeen	nine	two	ten	sixteen	eighteen	nineteen	eight	fourteen
twenty	zero	one	fourteen	five	nine	ten	three	two	twelve
eleven	thirteen	nineteen	four	fifteen	six	seven	eight	seventeen	sixteen
eighteen	one	three	eleven	four	nineteen	nine	zero	twenty	thirteen
sixteen	two	fourteen	seven	eight	ten	twelve	six	fifteen	seventeen
sixteen	eighteen	zero	nineteen	twelve	twenty	fifteen	eight	ten	two
eleven	thirteen	eighteen	four	seventeen	three	fourteen	sixteen	nineteen	seven
five	nine	one	ten	eighteen	twenty	thirteen	four	zero	six
fifteen	seventeen	nineteen	eleven	one	eight	three	nine	twelve	twenty

14
30
43
59
74
90
107
121
137
153

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Number Word to Numeral (0-50)

thirteen	four	zero	forty-four	twenty-nine	fifty	thirty-seven	twenty-two
forty-six	forty-nine	thirty	fifteen	twenty-four	one	ten	nineteen
twenty-six	forty-two	twenty-one	eleven	two	twelve	five	seven
sixteen	thirty-eight	forty-five	eight	three	six	forty	forty-one
thirty-four	twenty-eight	thirty-nine	seventeen	fourteen	thirty-one	twenty-five	eighteen
twenty	nine	thirty-five	thirty-six	forty-three	forty-seven	twenty-three	thirty-two
twenty-seven	thirty-three	forty-eight	fifty	zero	thirty	fourteen	four
forty-three	sixteen	six	one	fifteen	seventeen	forty	forty-nine

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Number Word to Numeral (0-100)

zero	twenty-one	twenty-seven	sixty-six	seventeen	seven	ninety-eight	fourteen
one hundred	seventy-one	seventy-five	seventy-two	ninety-seven	twenty-five	fifteen	ninety-nine
fifty-one	seventy-six	forty-six	nine	one	fifty-six	eighty-three	eighty
ninety	thirty-two	sixteen	ninety-two	twenty-two	fifty-five	thirty-four	sixty-nine
forty-eight	ten	eighty-one	sixty-three	ninety-one	eighty-eight	eighty-two	forty-one
twelve	eighty-nine	thirteen	fifty	forty-three	sixty-one	fifty-one	fifty-four
two	fifty-eight	eighty-six	sixty-eight	ninety-six	sixty	forty-nine	thirty
twenty-four	thirty-five	thirty-six	sixty-seven	eighty-four	four	twenty-five	forty-four

14
31
45
61
76
92
107
122

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

N-52

Numeral to Num. Word (0-10)*

3	9	2	4	8	5	7	1	6
10	8	3	6	9	1	4	5	2
7	1	5	10	6	4	8	2	9
4	3	10	7	8	2	5	6	1
9	5	3	6	2	1	8	10	7

36

70

104

139

174

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-say

Place Value-2d

Say the value of each underlined numeral

41	26	64	31	61	85	27	11	16	67	10
48	23	52	58	43	71	90	66	48	87	20
32	15	19	15	82	39	17	64	65	37	30
92	16	84	43	46	12	93	81	57	68	40
99	92	17	18	43	46	12	93	81	18	50
91	68	13	47	71	29	56	28	17	69	60
14	24	30	50	31	82	41	84	55	92	70
27	43	18	65	79	26	31	68	45	17	80
91	33	54	98	47	51	83	92	16	10	90
24	34	81	10	29	75	65	37	70	19	100

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-say

Place Value-3 & 4d

Say the value of each underlined numeral

4<u>0</u>8	9<u>7</u>6	24<u>1</u>	<u>8</u>246	98<u>7</u>2	312<u>7</u>	6<u>6</u>6	2<u>0</u>8	8
5<u>1</u>1	<u>7</u>641	821<u>1</u>	999<u>9</u>	<u>1</u>000	4<u>0</u>0	55<u>1</u>	<u>6</u>07	16
84<u>2</u>	<u>7</u>041	6<u>2</u>34	1<u>1</u>0	2<u>1</u>3	<u>3</u>41	45<u>0</u>	<u>7</u>613	24
<u>3</u>768	1<u>0</u>01	<u>3</u>72	5<u>1</u>5	6<u>2</u>1	8<u>9</u>4	110<u>6</u>	<u>2</u>107	32
2<u>0</u>01	1<u>9</u>54	<u>1</u>960	8<u>2</u>76	<u>7</u>377	<u>1</u>154	9<u>2</u>75	<u>2</u>754	40
<u>2</u>123	<u>2</u>425	23<u>1</u>	<u>8</u>11	4<u>7</u>2	2<u>0</u>9	<u>3</u>21	4<u>3</u>6	48
<u>1</u>504	6<u>3</u>3	5<u>0</u>1	<u>7</u>041	<u>3</u>129	2<u>3</u>46	<u>3</u>03	4<u>7</u>8	56
<u>7</u>74	85<u>7</u>	2<u>0</u>96	752<u>8</u>	60<u>9</u>1	<u>8</u>581	86<u>4</u>	<u>8</u>343	64
211<u>9</u>	4<u>5</u>11	91<u>9</u>	6<u>8</u>6	7<u>0</u>47	7<u>3</u>7	<u>8</u>317	859<u>3</u>	72
63<u>0</u>	2<u>0</u>41	9<u>0</u>08	43<u>0</u>4	961<u>2</u>	<u>5</u>66	<u>1</u>531	<u>9</u>339	80
99<u>9</u>	<u>4</u>11	<u>8</u>21	<u>3</u>22	<u>1</u>435	3<u>8</u>2	17<u>7</u>6	1<u>9</u>82	88
<u>8</u>51	4<u>3</u>11	777<u>9</u>	<u>3</u>264	4<u>5</u>4	<u>3</u>130	997<u>9</u>	<u>8</u>33	96

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Round Nearest 10*

61	74	43	49	32	35	28	41	16
47	86	92	63	19	66	79	31	32
38	86	46	17	12	29	35	52	48
86	37	91	44	27	85	93	36	64
68	13	18	16	23	37	71	32	80
81	48	78	11	73	58	65	94	96
33	54	19	57	73	51	95	47	112
64	53	12	34	68	88	46	21	128

ORANGE COUNTY PUBLIC SCHOOLS
PRECISION TEACHING PROJECT
ORLANDO, FLORIDA

see-write

Round to Nearest 100

828	585	142	698	358	761	617	431	24
111	817	863	422	597	841	485	852	48
339	817	763	339	376	563	761	639	72
628	852	8241	96	852	774	431	179	96
924	379	541	785	111	654	494	411	120
341	695	780	541	539	427	214	985	144
193	763	365	659	531	919	770	225	168
666	9339	535	933	879	792	345	581	192