Scope and Sequence
5th Grade

Excel Math

AnsMar Publishers, Inc.

(K-6) CURRICULUM

Scope and Sequence

by lesson number

PLACE VALUE AND COUNTING

Place value

1 Recognizing numbers less than a million
65 Recognizing tenths and hundredths places
80 Recognizing places up through trillions
80 Recognizing numbers given in expanded notation
121 Recognizing the thousandths place

Recognizing number words

1 Recognizing any number less than a million
13 Recognizing ordinals up to 100
65 Recognizing decimal number words
80 Recognizing numbers up through trillions
108 Recognizing Roman Numerals I, V, X, L, C, D, M

Missing number series

6 Filling in missing numbers in two or three-digit sequences counting by 1, 2, 3, 4, 5, 6, 7, 8, 9 or 10
87 Filling in missing numbers in sequences counting by 11 or 12
104 Filling in missing numbers in sequences counting by varying amounts
111 Filling in missing numbers in a sequence of decimal numbers

Putting numbers in order

6 Arranging 4 four-digit numbers in order from least to greatest and from greatest to least
43 Putting simple fractions in order from least to greatest and greatest to least
98 Putting decimals numbers in order from least to greatest and greatest to least
148 Arranging fractions, decimals and mixed numbers on a number line

ADDITION OF WHOLE NUMBERS

1 Adding 4 four-digit numbers with regrouping; recognizing addition and subtraction fact families;
32 Learning about the Commutative Property of Addition
96 Learning about the Associative Property of Addition

SUBTRACTION OF WHOLE NUMBERS

1 Subtracting 2 three-digit numbers with regrouping; recognizing addition and subtraction fact families
3 Subtracting four-digit numbers with regrouping

MULTIPLICATION OF WHOLE NUMBERS

Multiplication facts

2 Learning the multiplication facts with products up through 30 and products with 5 (up to 45), 10 (up to 90), 11 (up to 99) or 12 (up to 48) as a factor
11 Recognizing multiplication and division fact families
16 Learning multiplication facts with products up to 50
28 Learning multiplication facts with products less than 100 with 12 as a factor
28 Recognizing multiples
38 Determining the lowest common multiple
38 Learning multiplication facts with products with 11 (up to 121) and 12 (up to 144) as a factor

One-digit multiplier, two or more digit multiplicand

2 Multiplying a one-digit times a two or three-digit number

Two-digit multiplier

22 Multiplying 2 two-digit numbers, no regrouping
24 Multiplying 2 two-digit numbers, regrouping only with the ones or the tens place
36 Multiplying 2 two-digit numbers, regrouping twice
107 Multiplying a three-digit number by a two-digit number

Three-digit multiplier

139 Multiplying a three-digit number times a three-digit number

Other

11 Learning the terminology for multiplication
32 Learning about the Commutative Property of Multiplication
96 Learning about the Distributive and Associative Properties of Multiplication
153 Multiplying mixed numbers

DIVISION OF WHOLE NUMBERS

Division facts, no remainders

11 Recognizing multiplication and division fact families
11 Learning division facts with dividends to 30, dividends with 5 as a factor and dividends that are multiples of 10 (to 90), 11 (to 99) or 12 (to 48)
28 Learning division facts with dividends up through 50

Division facts, remainders

One-digit divisor & two or more digit quotient

Two-digit divisor

Three-digit divisor

Other

FRACTIONS

77 Converting improper fractions as part of mixed numbers
78 Determining the improper fraction with the greatest or least value in a set of fractions
78 Putting fractions in order from least to greatest and greatest to least
83 Converting fractions to percent by setting up equivalent fractions
99 Converting an improper fraction as part of a mixed number
106 Selecting the fraction that best represents a shaded region
110 Multiplying fractions and whole numbers by fractions
110 Comparison of fractions in word problems
113 Converting mixed numbers to decimal numbers by setting up equivalent fractions
115 Multiplication of whole numbers and fractions by fractions
117 Writing probabilities as lowest-terms fractions
118 Calculating reciprocals
122 Subtracting fractions with regrouping
126 Cross simplification of fraction multiplication problems
127 Converting mixed numbers to improper fractions
129 Division of fractions
133 Multiplying mixed numbers
135 Calculating averages with fractions
136 Converting fractions to decimals using division
147 Dividing a decimal number by a decimal number
148 Arranging fractions, decimals, and mixed numbers on a number line
153 Multiplication and division of mixed numbers

MONEY

3 Recognizing the dollar symbol and decimal point
3 Regrouping with money amounts when adding, subtracting or multiplying money amounts
4 Learning the change equivalents up to a dollar
4 Recognizing coins
3 Recognizing money number words
4 Solving word problems using mental multiplication of coins
4 Calculating change using the least number of coins
41 Rounding to the nearest dollar
41 Dividing money by a one-digit number
79 Dividing dollars by dollars
97 Calculating cost per unit
107 Multiplying a money amount by a two-digit multiplier
149 Computing sales tax

DECIMALS

65 Recognizing tenths and hundredths places, recognizing decimal number words
65 Writing decimal numbers as mixed numbers
66 Adding and subtracting decimals
81 Multiplying a decimal number by a whole number
82 Solving equations involving decimals
83 Converting decimals to percent by setting up equivalent fractions
85 Comparing decimal numbers in true and not true statements and in less than and greater than problems
94 Dividing decimal numbers by a whole number
98 Putting decimal numbers in order from least to greatest and greatest to least
100 Word problems involving decimals
100 Calculating a decimal answer in division problems when zeroes need to be added to the right of the dividend
105 Comparing decimal numbers in true and not true statements and in less than and greater than problems
107 Multiplying a three-digit decimal number by a two-digit number
111 Filling in a missing number in a sequence counting by decimal numbers
113 Converting mixed numbers to decimal numbers by setting up equivalent fractions
120 Multiplying and dividing decimal numbers by powers of 10
121 Recognizing the thousandth place
121 Rounding decimal numbers to the nearest tenth or hundredth
125 Selecting the decimal that represents a shaded region
131 Computing products involving two decimal numbers
132 Continued - Computing products involving two decimal numbers
136 Converting fractions to decimals using division
135 Calculating averages with decimals
147 Dividing a decimal number by a decimal number
148 Arranging fractions, decimals, and mixed numbers on a number line

PERCENT

TIME - CLOCK

TIME - CALENDAR

ODD AND EVEN NUMBERS

WORD PROBLEMS

MEASUREMENTS

GEOMETRY

ESTIMATING

PRE-ALGEBRA

PROBABILITY

GRAPH

STATISTICS

Scope and Sequence

Of Activities and Stretches

GRAPH BUILDING

Activities

G I, G II, G III, G IV, G V, G VI

LOGIC PUZZLES

Stretch

34, 37, 40, 42, 46, 50, 51, 64, 73, 74, 81, 84, 86, 88, 97, 98, 108, 112, 120, 127

PRE ALGEBRA

Activities

A8, A11

Stretch

9, 15, 19, 20, 28, 31, 39, 45, 52, 56, 67, 69, 75, 76, 80, 87, 89, 93, 95, 96, 99, 104, 109, 114, 126, 129

REASONING

Activities

A6, A12

Stretch

23, 27, 29, 33, 38, 41, 47, 49, 55, 59, 70, 72, 83, 101, 115, 117, 121, 133, 134, 139, 144, 147, 149, 154, 155

REASONING USING COMPUTATION

Stretch

3, 6, 7, 8, 11, 13, 21, 25, 26, 30, 90, 92, 102, 105, 106, 113, 116, 122, 130, 136, 138, 148, 152, 153

REASONING USING CALENDARS

Stretch

10, 18, 43

REASONING USING DEDUCTION

Activities

A2

Stretch

1, 2, 54, 57, 61

REASONING USING GEOMETRY

Activities

A3, A5, A7, A9, A10

Stretch

4, 24, 32, 36, 44, 53, 58, 60, 65, 66, 78, 82, 94, 100, 107, 110, 118, 119, 123, 125, 131, 135, 137, 140, 141, 150

REASONING USING POSSIBILITIES

Activity

A1, A4

Stretch

5, 14, 22, 71, 85, 91, 103, 111, 132, 142, 146

REASONING USING PATTERNS

Stretch

12, 16, 17, 35, 48, 62, 63, 68, 77, 79, 124

REASONING USING VENN DIAGRAMS

Stretch

145, 151

REASONING USING ROMAN NUMERALS

Stretch

125, 143