Grade 3 Excel Math Lesson Concepts

by lesson & page number

Lesson #	Pg	Lesson Concept
1	2	Tens and ones place; add and subtract two-digit numbers; addition and subtraction facts to 10
2	4	Recognizing a sequence counting by one, two, five or ten
3	6 ☆	Recognizing ordinals first through nineteenth counting from the left or right
	A2	CCS Alternate: Activity 1 Volume 1 & 2 - measuring liquid volume using non-standard units
4	8	Putting three numbers in order from least to greatest; mathematical symbols >, <, =
5	10 ☆	Interpreting information in picture (pie) graphs; calculating probability
	A27	CCS Alternate: Activity 14 - creating bar & picture graphs
	12	**Test 1 & Create A Problem: A day at the pool**
6	14	Filling in missing numbers counting up or down by 1, 2, 5 or 10; addition facts of 11, 12, 13
7	16	Adding 2 two-digit numbers using the facts of ten, with regrouping
8	18	Circles, triangles, squares and rectangles; adding and subtracting two-digit numbers horizontally
9	20	Any number or number word less than 100; finding a number more or less than a given number
10	22	Generate measurement data by measuring length
		Optional: Using a map and directions to find a location ☆
	24	**Test 2 & Create A Problem: Soccer practice**
11	26	Solving word problems using addition or subtraction
12	28	Learning the hundreds place; adding and subtracting three-digit numbers
13	30	Learning the addition facts of 14, 15, 16, 17 and 18; putting 4 numbers in order
14	32	Adding 2 or 3 two-digit numbers, with regrouping using facts of 11, 12, 13
15	34	Evaluating information to see if it is sufficient to answer the question
	36	**Test 3 & Create A Problem: Music by memory**
16	38	Recognizing coins; learning change equivalents
17	40	Learning the subtraction facts of 11, 12, 13
18	42	Telling time to the minute and half past the hour
19	44	Adding 2 or 3 two-digit numbers, with regrouping using facts of 14, 15, 16, 17, 18
20	46	Interpreting information in vertical and horizontal bar graphs
	48	**Test 4 & Create A Problem: A visit to the pet store**
21	50	Evaluating number sentences using < > = equal and ≠ not equal; defining equation
22	52	Learning which coins to use to buy something; computing change in word problems
23	54	Subtracting two-digit numbers, with regrouping using the facts of 10, 11, 12, 13
24	56	Learning the subtraction facts of 14, 15, 16, 17, 18
25	58	Using deductive reasoning to solve a word problem
	60	**Test 5 & Create A Problem: Going to the fair**
26	62	Comparing time measurements
		Optional: Calculating the date within one week in the future; learning the days of the week ☆
27	64	Recognizing any number less than 1000; learning the order of the months of the year
28	66	Learning the order of operations when parentheses are involved: addition and subtraction
29	68	Adding three-digit numbers; regrouping only to the tens place
30	70 ☆	Calculating possible combinations
	A21	CCS Alternate: Activity 10 - creating line plots
	72	**Test 6 & Create A Problem: Model airplanes**
31	74	Calculating one half of a group, recognizing odd and even numbers up to 20

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Lesson #	Pg	Lesson Concept
32	76	Solving word problems involving comparisons
33	78	Recognizing money words and symbols
34	80	Adding three-digit numbers; regrouping once to the tens or hundreds place
35	82	Interpreting scaled picture graphs
	84	**First Quarter Test**
36	86	Calculating missing numbers on either side of the equal symbol in number sentences
37	88	Recognizing a sequence counting by 3, 4 or 10; finding arithmetic patterns in the addition table
38	90	Comparing and putting three-digit numbers in order
39	92	Multiplying single-digit numbers by 0, 1, or 2
40	94	Solving two-step word problems
	96	**Test 7 & Create A Problem: Letters make a difference**
41	98	Adding three-digit numbers; regrouping twice; defining a square
42	100	Subtracting three-digit numbers, with regrouping in the tens place using facts of 14-18
43	102	Learning about the thousands place; adding and subtracting four-digit numbers
44	104	Learning change equivalents up to one dollar with pennies, nickels and dimes
45	106	Recognizing basic addition and subtraction fact families
	108	**Test 8 & Create A Problem: Rene's stickers**
46	110	Multiplication facts with products up to 20; recognizing odd and even numbers less than 100
47	112	Subtracting three-digit numbers with regrouping in the tens or hundreds place
48	114	Fill in the missing numbers in a sequence counting by 3, 4 or 10
49	116	Recognizing numbers less than 10,000 when the hundreds digit is greater than zero
50	118	Learning standard units of weight, distance and volume
	120	**Test 9 & Create A Problem: What's your address?**
51	122	Addition of money amounts, with regrouping
52	124	Subtracting 2 three or four-digit numbers, regrouping twice
53	126	Learning multiplication facts of 10, 11 and 12; 4 three-digit numbers in order from greatest to least
54	128	Solving fractional problems modeled with shading
55	130 ☆	Recognizing lines of symmetry
	A2	CCS Alternate: Activity 1 Volume 3 & 4 - measuring liquid volume using liters
	132	**Test 10 & Create A Problem: Maria goes deep sea fishing**
56	134	Labeling lines and line segments; measuring a line segment to the nearest inch or centimeter
57	136	Using sets of numbers (within parentheses) to complete number sentences
58	138	Dividing numbers up to 10 by splitting into equal parts and using repeated subtraction
59	140	Dividing numbers up to 14 by splitting into equal parts and using repeated subtraction
60	142	Rounding numbers less than 100 to the nearest 10
	144	**Test 11 & Create A Problem: Dewain's best game**
61	146	Multiplying a one-digit by a two-digit number, no regrouping
62	148	Estimating distance and weight measurements
63	150	Estimating volume measurements; recognizing a set with odd or even numbers
64	152	Subtracting three-digit numbers, regrouping twice with zeroes or a one in the tens place
65	154	Telling time before the hour; learning that an hour has 60 minutes

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	156	**Test 12 & Create A Problem: Jake's Iowa hogs**
66	158	Defining numerator and denominator; selecting a fraction that matches a given model
67	160	Adding three numbers where the sum of a single place is greater than 19 and less than 30
68	162	Solving word problems using multiplication; learning multiplication facts with products to 30
69	164	Recognizing three-dimensional solid figures
70	166	Putting a series of events in order
	168	**Second Quarter Test**
71	170	Learning division facts with dividends to 20; recognizing multiplication and division fact families
72	172	Computing the area of a plane figure given in square units
73	174	Multiplying a one-digit number by a two-digit number, with regrouping
74	176	Learning measurement equivalents for yards, feet and inches; optional: concept of a dozen ☆
75	178	Rounding to the nearest 10; estimating answers to word problems
	180	**Test 13 & Create A Problem: Rides at the fair**
76	182	Using the correct process symbol in an equation; filling in a missing number in an equation
77	184	Completing a pattern of shapes; recognizing shapes with common characteristics
78	186	Telling time a quarter to and a quarter past on the clock; estimating time without marks on the clock
79	188	Recognizing any numbers and number words less than 10,000
80	190	Completing number patterns and relationships shown in a chart
	192	**Test 14 & Create A Problem: Planting tulips**
81	194	Solving for an unknown in an equation when multiplying and dividing
82	196	Solving fractional part word problems; how many quarters or half-dollars equal a dollar
83	198	Abbreviations for common measurement units; solving word problems involving minutes
84	200 ☆	Calculating the date within one week in the past
	A25	CCS Alternate: Activity 13 - measuring length using non-standard units and inches
85	202	Estimating answers within a range
	204	**Test 15 & Create A Problem: Mitch and his zoo**
86	206	Calculating perimeters to the nearest inch or centimeter
87	208	Solving division word problems given models
88	210	Solving division word problems
89	212	Calculating the time in the future or past when the elapsed time is in hours
90	214	Rounding to the nearest hundred or thousand and finding the numbers on a number line
	216	**Test 16 & Create A Problem: Carlos' marbles**
91	218	Multiplying a three-digit by a one-digit number, regrouping once
92	220	Learning the order of operations within parentheses: multiplication and division
93	222	Dividing a number less than 11, with remainders
94	224	Dividing a number less than 11, with remainders
95	226	Rounding to the nearest 10 or 100; optional: multiplying money by a one-digit number ☆
	228	**Test 17 & Create A Problem: James needs new shoes**
96	230	Learning division facts with 5 as a factor and with unknown factors; three-step word problems,
97	232	Multiplication facts with products up to 40; recognizing a number sequence counting by 5 or 6
98	234	Finding the two-digit number closest to a given number
99	236	Evaluating number sentences with missing operation symbols of <, >, = equal, or ≠ not equal

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100	238	Writing numbers less than 10,000 in multiple forms, including expanded notation
	240	**Test 18 & Create A Problem: Delivering the mail to Hailey**
101	242	Division with one-digit divisor, two-digit dividend & two-digit quotient, without regrouping or remainders
102	244	Division with one-digit divisor, two-digit dividend & two-digit quotient, without regrouping or remainders
103	246	Division with one-digit divisor, two-digit dividend & two-digit quotient, without regrouping or remainders
104	248	Comparing and putting 3 four-digit numbers in order from greatest to least
105	250	Choosing the correct equation to solve a word problem
	252	**Third Quarter Test**
106	254	Defining polygon, quadrilateral, parallelogram, pentagon, hexagon and octagon shapes
107	256	Creating equations by substituting numbers for letters; performing operations indicated by parentheses
108	258	Measuring a line segment to the nearest half-inch or half-centimeter; using a number line
109	260	Learning that the whole is the sum of its parts
110	262	Identifying the information needed to answer a question in a word problem
	264	**Test 19 & Create A Problem: Alex and her books**
111	266	Calculating quotients with remainders, dividends to 20; word problems with division and remainders
112	268	Calculating elapsed time involving A.M. and P.M.
113	270	Filling in missing numbers in a sequence counting by 5 or 6; multiplication facts with products to 50
114	272	Learning change equivalents; multiplying coins; calculating unit cost
115	274	Estimating answers to word problems by rounding to the nearest hundred or thousand
	276	**Test 20 & Create A Problem: More than one way to solve a problem**
116	278	Calculating perimeter of a shape drawn to scale; abbreviations for distance; km = 1000 meters
117	280	Recognizing multiples; division facts with dividends to 30 that are multiples of 10, 11 and 12; understanding division as an unknown factor problem; identifying mathematical patterns
118	282	Repeated subtraction for division with a two-digit divisor and two-digit dividends less than 50
119	284 ☆	Learning the parts of a circle
	A18	CCS Alternate: Activity 9 - finding fractional parts
120	286 ☆	Similar and congruent figures
	A24	CCS Alternate: Activity 12 - tiling to find the length of rectangles
	288	**Test 21 & Create A Problem: Bring your pet to work day?**
121	290	Abbreviations of units of weight and volume; two-step measurement problems
122	292	Changing an inequality to an equation by moving values in the number statement
123	294	Solving word problems using reasoning
124	296	Computing the area of a rectangle that is drawn to scale
125	298	Recognizing the shorter or longer distance, and the lighter or heavier weight
	300	**Test 22 & Create A Problem: Looking for information on a purchase order**
126	302	Calculating answers to word problems using multiplication
127	304	Calculating answers to word problems using multiplication to calculate costs
128	306 ☆	Defining parallel, intersecting and perpendicular lines
	A10	CCS Alternate: Activity 4 - finding products using mental math
129	308	Measuring items in meters and centimeters; recognizing diagonal, parallel & perpendicular lines ☆
130	310	Recognizing changing patterns in a sequence of figures

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	312	**Test 23 & Create A Problem: The vegetarian cookbook**
131	314	Learning the multiplication facts with products up to 81; multiplying and regrouping twice
132	316	Dividing: one-digit divisor, three-digit dividend and two-digit quotient, no regrouping or remainders
133	318	Dividing: one-digit divisor, three-digit dividend and two-digit quotient, no regrouping or remainders
134	320 ☆	Rounding to the nearest dollar; dividing dollar amounts
	A6	CCS Alternate: Activity 2 - finding the area & perimeter of rectilinear shapes
135	322 ☆	Computing the volume of one layer of cubes
	A14	CCS Alternate: Activity 6 - comparing and modeling fractions
	324	**Test 24 & Create A Problem: The fund-raising party**
136	326	Subtracting four-digit numbers
137	328 ☆	Solving word problems with fractional parts and the word "not"
	A28	CCS Alternate: Activity 15 - partitioning shapes into fractional parts
138	330 ☆	Defining line, line segment and ray; line notation
	A16	CCS Alternate: Activity 7 - dividing even numbers into equal parts
139	332 ☆	Learning the parts of a triangle
	A22	CCS Alternate: Activity 11 - showing time intervals on a number line
140	334	Adding and subtracting simple fractions
	336	**Fourth Quarter Test**
141	338	Recognizing cubes and determine faces, sides (edges) & vertices of shapes; opt.: polyhedrons ☆
142	340	Division and multiplication facts with dividends less than 50
143	342	Determining factors
144	344 ☆	Determining prime factors
145	346 ☆	Computing the volume of several layers of cubes
	A17	CCS Alternate: Activity 8 - calculations in advertising
	348	**Year End Test 1**
146	350	Figuring change using the fewest coins, with quarters, dimes, nickels and pennies
147	352	Comparing the value of fractions
148	354	Determining equivalent fractions using models
149	356	Determining equivalent fractions using money amounts less than a dollar
150	358	Recognizing any whole number greater than zero and less than a million
	360	**Year End Test 2**
151	362	Determining the question, given the story and the answer; division facts with dividends to 81
152	364	Computing elapsed time across 12 on the clock
153	366	Dividing with a two-digit divisor and two-digit dividend
154	368	Dividing with a two-digit divisor and two-digit dividend
155	370	Finding patterns in operations and filling in missing numbers in a sequence counting by increasing or decreasing amounts

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Changes and corrections are posted on the PRODUCT UPDATES page of our website.
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