

***Houghton Mifflin Math Expressions, Grade K-5 correlated to
Washington Exemplary Mathematics Standards***

Washington Exemplary Mathematics Standards	<i>Houghton Mifflin Math Expressions</i>
<i>Number Sense (N)</i>	
K.N.1 Count, represent, name, and order a number of objects from 0 to 31.	<i>These are some of the many examples:</i> 1-6, 7-10, 11, 19-22, 23, 29-32, 39-40, 49-50, 183, 196, 235, 259, 325, 486, 559, 625, 639
K.N.2 Match sets of objects one-to-one.	SAB: 201, 307 TG: 397-398, 400, 588-589
NK.N.3 Compare sets of up to ten objects and identify whether one set is equal to, more than, or less than another.	SAB: 158, 201, 204, 213, 216 TG: 40-42, 51, 319, 320, 338, 343, 397-398, 410, 425, 430-431, 667 H/R: 113
K.N.4 Show that larger numbers describe sets with more objects in them than sets described by smaller numbers.	SAB: 31, 33, 158, 201, 204, 213, 216 TG: 3-5, 8-9, 29-33, 40-42, 45-46, 49-51, 65-66, 77, 82, 84-86, 319, 320, 338, 343, 397-398, 410, 425, 430-431, 667 H/R: 13, 15, 113
K.N.5 Divide sets of ten or fewer objects into equal groups.	SAB: 25, 31, 33, 42 TG: 70, 81, 85 H/R: 13, 15
K.N.6 Divide shapes into equal parts.	TG: 70, 85, 570 SAB: 25, 33 H/R: 13, 15
K.N.7 Find the number that is one more than or one less than any whole number to 30.	TG: 159, 163, 169, 173, 217-218, 224-225, 451, 456
K.N.8 Use correctly the words one/many, none/some/all, more/less, and most/least.	SAB: 158, 201, 204, 213, 216 TG: 40-42, 51, 319, 320, 338, 343, 397-398, 410, 425, 430-431, 667 H/R: 113
<i>Computation (C)</i>	
K.C.1 Join sets of objects to model addition for any two sets with fewer than 10 objects when joined.	<i>These are some of the many examples:</i> 132-133, 255, 266, 282, 326, 362, 377-380, 406, 446
K.C.2 Remove objects from sets of less than 10 to model subtraction.	<i>These are some of the many examples:</i> 132-133, 212, 217-218, 224-225, 379, 451, 582
K.C.3 Demonstrate solving addition and subtraction problems for sums to 10.	<i>These are some of the many examples:</i> 129, 197, 249, 257, 269, 282, 382, 404, 442-443, 453, 474, 505, 544, 563, 572, 654,
<i>Geometry & Measurement (G)</i>	

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K.G.1 Identify common shapes and geometric objects: circle, triangle, square, rectangle, and cube and determine the number of sides and angles.	SAB: 21, 27, 85, 105, 175, 245, 246, 323-324 TG: 55-56, 58, 59-61, 63-64, 74, 75, 76, 80, 90, 100, 106, 114-115, 166, 170, 174-176, 184-186, 221-222, 228, 288-290, 298, 308, 355, 390, 408-409, 428, 458, 474, 475, 476, 486-488, 520, 562, 612-614
K.G.2 Compare and sort common objects by position, shape, and size.	TG: 159, 163, 169, 173, 300, 318
K.G.3 Identify and use the terms: inside, outside, between, above, and below.	TG: 300, 318, 217, 351
K.G.4 Compare length, capacity, weight, and temperature of objects directly and recognize which object is shorter, longer, taller, lighter, heavier, warmer, cooler or holds more.	SAB: 353, 354 TG: 277-279, 649-654, 656-658, 660-662, 663, 664
K.G.5 Express concepts of time: morning, afternoon, evening, yesterday, today, tomorrow, week, month, and year. Relate that clocks and calendars are tools that measure time. Know the days of the week and the months of the year.	SAB: 337-340, 341-344, 345, 346 TG: 631-638, 639-644, 645-648 H/R: 169-170, 171, 172, 173, 174

SAB = Student Activity Book

TG = Teacher's Guide

H/R = Homework and Remembering

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<i>Number Sense (N)</i>	
1.N.1 Count, read, write whole numbers by 1's, 2's, 5's, and 10's to 100.	<i>These are some of many examples:</i> 9-10, 22, 34-35, 53, 59, 77, 100, 294-295, 305, 579, 685, 713
1.N.2 Compare whole numbers to 100 by using the words less than, equal to, and greater than, and the symbols $<$, $=$, $>$.	SAB: 204 TG: 512
1.N.3 Order whole numbers to 100 on a number line and arrange small sets of numbers in increasing or decreasing order.	SAB: 164, 204 TG: 4, 41-46, 426, 512
1.N.4 Count and group objects in ones and tens, identifying the number of tens and ones in numbers less than 100.	SAB: 131, 135 TG: 295, 297, 300-301, 303, 307, 313, 315, 326-327, 338-339, 341, 350 H/R: 95, 97, 99, 105, 109, 111, 112, 113, 114
1.N.5 Name the number one more than, one less than, 10 more than, and 10 less than a given number to 100.	SAB: 139, 146 TG: 42, 355-356, 374
1.N.6 Identify numbers as even or odd.	SAB: 37 TG: 95-98 H/R: 31, 32
1.N.7 Recall from memory single digit addition facts (to $9 + 9$) and the corresponding subtraction facts.	<i>These are some of many examples:</i> 28-30, 40-41, 46, 58-59, 64-66, 82-83, 268, 304, 410, 741, 745, 769, 800
<i>Computation (C)</i>	
1.C.1 Show the meaning of addition (putting together, increasing) and subtraction (taking away, finding the difference).	<i>These are some of many examples:</i> 28-31, 40-41, 64-66, 70-73, 76-79, 154-155, 160, 221, 303, 378-379, 456,
1.C.2 Show equivalent forms of the same number (to 20) using objects, diagrams, and numbers.	SAB: 11, 17, 23, 24, 25, 27, 29, 31 TG: 28-29, 34-35, 52-54, 58-59, 72, 76-77 H/R: 9, 11, 17, 19, 21
1.C.3 Solve two-digit addition and subtraction problems without regrouping and explain methodology.	SAB: 143, 181 TG: 366-367, 426-427 H/R: 123, 124, 137, 141, 146, 147, 148, 149-150
1.C.4 Add and subtract using the zero property of addition	This is covered in grade K.

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1.C.5 Apply the inverse relationship between addition and subtraction facts	SAB: 73, 76, 77, 78, 79, 80, 85, 91 TG: 197, 202, 210-213, 214, 224-226, 230-233 H/R: 63, 65, 67, 69, 71, 73, 74
<i>Algebra & Functions (A)</i>	
1.A.1 Add whole numbers using the commutative and associative properties of addition.	SAB: 11, 23, 25 TG: 28-29, 30-31, 40-41, 53, 58-59, 64-68, 800 H/R: 9, 11, 12, 15, 16, 17, 19, 21, 252
1.A.2 Write and evaluate mathematical expressions from problem situations involving addition and subtraction.	<i>These are some of many examples:</i> 28-31, 40-41, 64-66, 70-73, 76-79, 154-155, 160, 184, 185, 190-191, 196-197, 199, 202, 203, 210-213, 215, 218-219, 221, 303, 378-379, 456,
1.A.3 Identify, duplicate, and extend simple sequential and growing patterns.	SAB: 5, 7, 9, 17, 23, 25, 27 TG: 7-12, 13-18, 19-26, 33-38, 51-56, 57-62, 69-74, 75-80, 99-108, 153-158, 259-264, 530, 558, 559, 560 H/R: 3, 4, 7, 8, 11, 12, 19, 20, 22
<i>Geometry & Measurement (G)</i>	
1.G.1 Identify, classify, and sort basic plane and solid geometric figures by shape, size, faces, edges, and vertices.	SAB: 10, 223, 325, 326, 331, 332 TG: 20, 23-25, 552-553, 555, 562-567, 574-575, 830-831, 842-843 H/R: 7, 177, 179
1.G.2 Measure and compare lengths of two or more objects in non-standard or standard units	SAB: 211, 212, 319 TG: 534-537, 816, 817, 827 H/R: 171
1.G.3 Measure the length of an object to the nearest inch and centimeter.	SAB: 323, 324, 325, 326, 327, 328, 329, 331, 332, 333, 335, 336 TG: 820-821, 824-826, 829-831, 833, 835-839, 841-844, 848, 851, 855, 856, 860 H/R: 261, 265, 267, 269, 271, 273, 275, 277, 281, 283
1.G.4 Tell time to the nearest half-hour.	SAB: 252, 259 TG: 633-635, 644-647, 658 H/R: 199, 202, 203, 204, 205, 210, 215, 275

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1.G.5 Determine the total amount of money in a set with different denominations of coins (quarters, dimes, nickels, pennies).	SAB: 53, 153, 157, 265 TG: 146-151, 388-391, 396-397, 400-401, 606-609, 659 H/R: 47, 49, 51, 53, 78, 125, 127, 128, 134, 191, 196, 209
1.G.6 Match a set of coins of one denomination to an equivalent set of coins of another denomination.	SAB: 287 TG: 603, 637, 649, 666-669
<i>Data (D)</i>	
1.D.1 Represent, compare, and interpret data in pictures and picture graphs.	SAB: 193, 197, 199, 201, 202, 203, 205 TG: 480-483, 486-489, 492-495, 498-501, 510-511, 513, 516-519 H/R: 153, 155, 157, 159, 160, 161, 162, 163, 164, 165, 166

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<i>Number Sense (N)</i>	
2.N.1 Count, read, and write whole numbers to 1,000 using numerals and words and identify the place value for each digit.	<i>These are some of the many examples:</i> 27, 33-34, 27-32, 298, 317-319, 698-699, 703, 713-715, 716
2.N.2 Order and compare whole numbers to 1,000 and use the symbols $<$, $=$, $>$.	SAB: 209, 211, 215 TG: 144-148, 463, 470-472, 480-482, 484, 703, 831 H/R: 41-42, 131-132
2.N.3 Identify numbers to 1000 in various combinations of hundreds, tens and ones.	SAB: 11-16, 137-140, 141-142, 143, 173-176 TG: 27-34, 297-304, 305-312, 314-317, 369, 624, 710-711, 740 H/R: 9-10, 85-86, 87-88, 113-114
2.N.4 Count by ones, twos, fives, and tens to 1000.	SAB: 174, 315, 321, 392-393 TG: 396-397, 413, 698-699, 703, 713-715, 717, 893 H/R: 203
2.N.5 Name the number that is ten more than any number from 0 through 990 or 10 less than any number from 10 through 1000.	TG: 395, 715, 717
2.N.6 Identify odd and even numbers to 1000.	TG: 255, 259
2.N.7 Recall from memory multiplication facts of 2's, 5's, and 10's (to "times 10").	SAB: 391-396, 405-406, 407-408 TG: 889-896, 909-914, 915-920 H/R: 255-256, 261-262, 263-264
<i>Computation (C)</i>	
2.C.1 Add or subtract whole numbers up to three digits using the standard algorithm.	SAB: 145-148, 153-156, 157-158, 159-160, 161-162, 163-164, 165-166, 261-262, 263-264, 265-270, 271-272, 273-274, 275-276, 277-278, 281-282, 283-284, 285-286, 289-290, 291-292 TG: 321-328, 347-352, 353-360, 361-366, 367-370, 371-376, 377-382, 589-598, 599-604, 605-612, 613-618, 619-624, 625-630, 631-636, 637-642, 643-646, 653-658, 659-664, 725-734, 751-756, 757-766, 767-772, 773-778, 779-784, 785-794, 795-800, 801-806, 807-814, 815-820, 821-826, 827-832, 833-838, H/R: 91-92, 97-98, 99-100, 101-102, 103-104, 105-106, 107-108, 165-166, 167-168, 169-170, 171-172, 173-174, 175-176, 177-178, 181-182, 183-184, 185-186, 189-190, 191-192

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2.C.2 Solve problems and check solutions using the inverse relationship between addition and subtraction.	SAB: 31-38, 43-46, 47-50, 51-56, 57-58, 59-60, 61-64, 65-66, 261-262, 281-282, 283-284, 285-286, 289-290, 349-352, 355-356 TG: 67-74, 95-104, 105-110, 111-116, 117-122, 123-130, 131-136, 137-142, 575-582, 631-636, 637-642, 643-646, 647-652, 785-794, 821-826 H/R: 19-20, 27-28, 29-30, 31-32, 33-34, 35-36, 37-38, 39-40, 165-166, 181-182, 183-184, 185-186, 189-190, 225-226, 235-236
2.C.3 Carry out addition and subtraction mentally involving: 3-digit numbers and ones; 3-digit numbers and tens; 3-digit numbers and hundreds.	SAB: 325 TG: 726-727, 731
2.C.4 Find missing values in numeric expressions involving addition and subtraction.	<i>These are some of the many examples:</i> 69, 70-71, 106-109, 531, 576-577, 657, 660-663, 725, 731, 788, 821, 828-829, 833
<i>Fractions & Decimals (F)</i>	
2.F.1 Identify and name unit fractions from $\frac{1}{12}$ to $\frac{1}{2}$.	SAB: 415, 417-418 TG: 934-935, 937- 939, 942-944, 946-947 H/R: 269
2.F.2 Identify that when all fractional parts are included, such as four-fourths, the result is equal to the whole and to one.	SAB: 418 TG: 938
2.F.3 Place 0 and halves on the number line from 0 to 10.	SAB 57 TG: 119-121 Covered in grade 1.
2.F.4 Add and subtract money within \$10.00.	<i>These are some of the many examples:</i> 76-77, 386, 391-392, 626-629, 649-650, 734-737, 840-843
2.F.5 Represent money using decimal notation and convert between representation in \$ and in ¢ to a total of \$10.	<i>These are some of the many examples:</i> 76-77, 81, 386, 388, 391-392, 626-629, 740-741, 795
<i>Algebra & Functions (A)</i>	
2.A.1 Solve word problems involving addition and subtraction and write mathematical expressions.	<i>These are some of the many examples:</i> 97, 138-139, 189-232, 233-260, 261-274, 655, 780-781

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2.A.2 Identify, create, describe, and extend number patterns using addition and subtraction.	SAB: 173, 174, 202 TG: 19, 87, 396-399, 401-402, 448-449, 577, 717, 731 H/R: 113, 114
2.A.3 Simplify mental calculations and check results using the commutative and associative properties of addition.	SAB: 67 TG: 150-151 H/R: 43
<i>Geometry & Measurement (G)</i>	
2.G.1 Identify congruent two-dimensional shapes in any position or orientation.	SAB: 297 TG: 670, 673 H/R: 193
2.G.2 Measure and estimate length to the nearest inch, foot, yard, centimeter, and meter.	SAB: 71-76, 79, 81, 82, 83-84, 371, 372, 375-378 TG: 159-166, 170, 175-178, 179-181, 851, 852, 853, 855-860 H/R: 45-46, 49, 51, 243, 245
2.G.3 Describe the relationships among inch, foot, and yard and between centimeter and meter.	SAB: 443, 444 TG: 862-865, 868, 968, 974-976 H/R: 247, 279
2.G.4 Estimate and measure capacity using cups, pints, quarts, gallons, and liters.	TG: 968, 980, 983
2.G.5 Estimate weight and use a known weight to measure the weight of other objects.	TG: 967
2.G.6 Read a thermometer in Celsius and Fahrenheit.	TG: 982
2.G.7 Tell time to the nearest quarter hour and know the difference between a.m. and p.m.	SAB: 183-190, 191-192, 193-194 TG: 413-420, 421-426, 427-434 H/R: 117, 119, 121
2.G.8 Identify relationships of time: seconds in a minute; minutes in an hour; hours in a day; days in a week; and days, weeks, and months in a year.	SAB: 200 TG: 425, 439, 444
2.G.9 Find the duration of intervals of time in hours.	SAB: 196, 198 TG: 438, 440 H/R: 123
<i>Data (D)</i>	

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2.D.1 Represent, compare, and interpret data with tables, tally marks, pictographs, and bar graphs.	SAB: 106, 209, 210, 211, 214, 215-216, 217-218, 219-220, 221-222, 223-224, 225-226, 227, 233, 234, 235, 236, 341, 372 TG: 109, 230, 455-460, 461-466, 468-469, 471, 474-478, 479-484, 485-488, 489-494, 495-500, 501-506, 507-512, 514-515, 517, 525-530, 531-536, 604, 618, 768, 852, 922 H/R: 127-128, 129, 131, 132, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 151, 153, 192

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<i>Number Sense (N)</i>	
3.N.1 Count, read, and write whole numbers to 10,000 in numerals and words.	<i>These are some of the many examples:</i> 18, 24, 30, 116, 278, 428, 485, 514, 612, 851
3.N.2 Identify and interpret the place value for each digit in numbers to 10,000.	SAB: 1-6, 7-12, 13-14, 15-18 TG: 1-10, 11-20, 21-28, 29-36 H/R: 1-2, 3-4, 5-6, 7-8
3.N.3 Represent numbers to 10,000 with words, and the expanded form.	SAB: 12, 13, 15, 17 TG: 12-14, 18, 22-23, 24, 30, 34, 35 H/R: 3, 5
3.N.4 Round numbers to 10,000 using front-end estimation.	SAB: 123-126, 127-130 TG: 265-272, 273-280 H/R: 65, 67
3.N.5 Compare whole numbers to 10,000 and arrange them in numerical order.	SAB: 131-132 TG: 8, 281-288 H/R: 69
3.N.6 Recall from memory multiplication facts for numbers between 1 and 10.	SAB: 193-198, 219-222, 223-226, 227-230, 231-236, 237-242, 277-282, 287-288, 293-304, 323-326, 331-334, 339-340, 359-368, TG: 419-428, 459-468, 469-476, 477-486, 487-494, 495-504, 519-526, 535-544, 551-560, 587-596, 605-614, 621-630, 657-662 H/R: 103-106, 117-122, 123-126, 127-132, 133-136, 137-140, 173-178, 181-184, 189-192, 199-202, 207-210, 213-216
<i>Computation (C)</i>	
3.C.1 Add or subtract whole numbers between 0 and 10,000 using the standard algorithm.	SAB: 19-22, 23-24, 25-26, 27-28, 29-30, 31-32, 33-36, 37-38, 39-40, 41-742, 43-44, 45-46, 71-76, 77-78, 79-80, 81-82, 85-88, 89-92, 93-96, 97-98, 163-166, 167-170, 171-174 TG: 37-44, 45-52, 53-58, 59-64, 65-70, 71-80, 81-90, 91-98, 99-108, 109-114, 115-120, 163-172, 173-178, 179-184, 185-194, 201-208, 209-216, 217-224, 353-360, 361-368 H/R: 9-10, 11-12, 13-14, 15-16, 17-18, 19-20, 21-22, 23-24, 25-26, 27-28, 29-30, 41-42, 43-44, 45-46, 47-48, 51-52, 53-54, 55-56, 91-92, 93-94, 95-96

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3.C.2 Add or subtract with numbers less than 100 using mental arithmetic.	SAB: 43 TG: 58, 59, 64, 65, 80, 81, 89, 98, 99, 108, 109, 115, 118, 120 H/R: 14, 16, 20, 24, 26, 30
3.C.3 Estimate results of whole-number addition and subtraction.	SAB: 124, 129, 130 TG: 270-272, 277-280 H/R: 65, 67
3.C.4 Represent multiplication by repeated addition and arrays. Represent division as sharing and grouping	SAB: 199-202, 203-214, 243-272, 327-330 TG: 429-436, 437-448, 455-458, 505-512, 597-604 H/R: 107, 109-111, 115, 141-169, 203-205
3.C.5 Multiply and divide numbers up to a 3-digit number by a 1- digit number.	SAB: 193-198, 199-202, 203-214, 215-218, 219, 222, 223-226, 227-230, 231-236, 237-242, 243-272, 273-276, 279-281, 283-286, 287-288, 289-296, 293-304, 323-326, 327-330, 331-334, 335-338, 339-340, 341-346, 349-352, 353-358, 359-368, 369-374, 375-378, 379-384, 385-396 TG: 419-428, 429-436, 437-448, 449-458, 459-468, 469-476, 477-486, 487-494, 495-504, 505-512, 513-518, 519-526, 527-534, 535-544, 545-550, 551-560, 587-596, 597-604, 605-614, 615-620, 621-630, 631-640, 641-648, 649-656, 657-662, 663-672, 673-680, 681-686, 687-692 H/R: 105, 107, 111, 115, 121, 125, 127, 135, 139, 169, 171, 177, 179, 180, 181, 185, 186, 191, 192, 201, 205, 209, 211, 215, 217, 218, 219, 220, 223, 227, 229, 230, 231, 232, 233, 234, 235, 236
3.C.6 Compute and check results for multiplication and division using the inverse relationship.	SAB: 215, 217 TG: 450-458, 591 H/R: 115
<i>Fractions & Decimals (F)</i>	
3.F.1 Represent fractions of a whole and parts of a group.	SAB: 417-422, 423-424, 425-426, 431-434 TG: 727-736, 737-742, 743-748, 761-768, 773 H/R: 243, 245, 247, 253, 254
3.F.2 Identify and name numerators and denominators.	SAB: 417 TG: 728-729
3.F.3 Compare and order fractions with denominators from 2 to 12.	SAB: 462, 463, 464, 465 TG: 828-829, 830, 832, 834, 838, 839, 840 H/R: 269, 271

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3.F.4 Identify, name and use equivalent fractions with denominators 2, 4 and 8.	SAB: 439, 441, 452 TG: 781-784, 787, 789-794, 800, 801, 806, 807 H/R: 257, 259, 262
3.F.5 Add and subtract simple fractions with the same denominator.	SAB: 418-419, 455-460, 461-464, 466 TG: 730-736, 815-824, 825-831, 835-836, 840 H/R: 243, 267, 269, 271
3.F.6 Solve problems involving addition and subtraction of money amounts in decimal notation.	SAB: 25, 26, 27, 28, 29, 30, 38, 138 TG: 54-57, 61-63, 67-70, 85-86, 89, 95-96, 112, 114, 117, 299-300, 302 H/R: 13, 17, 21, 27, 73
3.F.7 Solve multiplication and division problems with money amounts in decimal notation and whole-number multipliers and divisors.	TG: 475
<i>Algebra & Functions (A)</i>	
3.A.1 Define and correctly apply the commutative and associative properties of multiplication.	SAB: 210, 288 TG: 443-447, 539, 541-542 H/R: 183
3.A.2 Apply appropriate symbols for operations and relations to make a mathematical expression true.	SAB: 132 TG: 285-286 H/R: 69
3.A.3 Represent relationships of quantities in the form of mathematical expressions, equations, or inequalities.	<i>These are some of the many examples:</i> 18, 24, 30, 116, 278, 428, 485, 514, 612, 851
<i>Geometry & Measurement (G)</i>	
3.G.1 Identify and describe points, segments, rays, lines, and angles.	SAB: 53, 111, 117, 118 TG: 134, 244, 254-256, 259 H/R: 61, 63
3.G.2 Identify, describe, and draw parallel, perpendicular, and oblique lines.	SAB: 54, 56 TG: 133-138, 230 H/R: 33
3.G.3 Identify, describe, and classify polygons (including quadrilaterals, pentagons, hexagons, and octagons) and their attributes.	SAB: 57-64, 65-66, 67-68, 70, 111-116 TG: 139-146, 147-152, 153-158, 243-252 H/R: 35-36, 37, 39, 61-62, 242
3.G.4 Identify, describe, and classify: cube, sphere, prism, pyramid, cone, and cylinder.	SAB: 479-486, 487-492, 493-498, 499-502, 503-504 TG: 873-878, 879-886, 887-892, 893-904 H/R: 281, 283, 285, 287, 289

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3.G.5 Measure length, weight, volume, and time using metric and U.S. units.	SAB: 47-52, 69, 399-406, 407-412, 413-414, 507-510, 511-512, 513-516, 517-518, 519-522, 523-524, 525-526, 527-528, 529-532, 533-534, 535-536 TG: 125-132, 701-708, 709-716, 717-722, 909-916, 917-922, 923-932, 933-938, 939-946, 947-952, 953-958, 959-964, 965-972, 973-978, 979-984 H/R: 31, 37, 237, 239, 241, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309
3.G.6 Tell time to the nearest minute and determine elapsed time.	SAB: 399-406, 410-412 TG: 701-708, 712-716 H/R: 237, 239
3.G.7 Carry out simple unit conversions within a measurement system.	SAB: 511, 514, 515, 519, 520, 523, 527, 529, 531 TG: 918-919, 921, 926-928, 940-942, 945, 949, 951, 960-963, 967, 969 H/R: 293, 295, 298, 299, 301, 305, 307
3.G.8 Add and subtract length, weight, volume, and time in mixed units, within the same measurement system.	SAB: 57, 69, 517-518, 524, 530, 532 TG: 933-938, 950, 968, 970 H/R: 35, 297
3.G.9 Solve word problems involving money, length, and time.	SAB: 25, 26, 27, 28, 29, 30, 38, 138, 139, 140, 142, 143, 511, 512, 518 TG: 54-57, 61-63, 67-70, 85-86, 95-96, 112, 114, 117, 299-300, 302, 304-308, 312-316, 712, 714, 716, 918, 920, 936 H/R: 13, 17, 21, 27, 73, 75, 77, 239, 298
3.G.10 Describe the difference between area and perimeter and calculate both for rectangles with whole number side lengths.	SAB: 307-312, 313-314, 315-318 TG: 561-568, 569-574, 575-582 H/R: 193, 195, 197
<i>Data (D)</i>	
3.D.1 Interpret data displayed in a circle graph (pie chart) and bar graph and answer questions about the situation.	SAB: 167-170, 171-174, 351, 427, 435, 436 TG: 369-376, 377-384, 645, 647, 695, 751, 770-773 H/R: 93, 94, 255
3.D.2 Summarize and display the results of experiments with tables, bar graphs or line plots.	SAB: 153, 169 TG: 331, 334-336, 337, 338, 374, 385-388, 695, 779 H/R: 83

SAB = Student Activity Book

TG = Teacher's Guide

H/R = Homework and Remembering

***Houghton Mifflin Math Expressions, Grade K-5 correlated to
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Washington Exemplary Mathematics Standards	<i>Houghton Mifflin Math Expressions</i>
<i>Number Sense (N)</i>	
3.N.1 Count, read, and write whole numbers to 10,000 in numerals and words.	<i>These are some of the many examples:</i> 18, 24, 30, 116, 278, 428, 485, 514, 612, 851
3.N.2 Identify and interpret the place value for each digit in numbers to 10,000.	SAB: 1-6, 7-12, 13-14, 15-18 TG: 1-10, 11-20, 21-28, 29-36 H/R: 1-2, 3-4, 5-6, 7-8
3.N.3 Represent numbers to 10,000 with words, and the expanded form.	SAB: 12, 13, 15, 17 TG: 12-14, 18, 22-23, 24, 30, 34, 35 H/R: 3, 5
3.N.4 Round numbers to 10,000 using front-end estimation.	SAB: 123-126, 127-130 TG: 265-272, 273-280 H/R: 65, 67
3.N.5 Compare whole numbers to 10,000 and arrange them in numerical order.	SAB: 131-132 TG: 8, 281-288 H/R: 69
3.N.6 Recall from memory multiplication facts for numbers between 1 and 10.	SAB: 193-198, 219-222, 223-226, 227-230, 231-236, 237-242, 277-282, 287-288, 293-304, 323-326, 331-334, 339-340, 359-368, TG: 419-428, 459-468, 469-476, 477-486, 487-494, 495-504, 519-526, 535-544, 551-560, 587-596, 605-614, 621-630, 657-662 H/R: 103-106, 117-122, 123-126, 127-132, 133-136, 137-140, 173-178, 181-184, 189-192, 199-202, 207-210, 213-216
<i>Computation (C)</i>	
3.C.1 Add or subtract whole numbers between 0 and 10,000 using the standard algorithm.	SAB: 19-22, 23-24, 25-26, 27-28, 29-30, 31-32, 33-36, 37-38, 39-40, 41-742, 43-44, 45-46, 71-76, 77-78, 79-80, 81-82, 85-88, 89-92, 93-96, 97-98, 163-166, 167-170, 171-174 TG: 37-44, 45-52, 53-58, 59-64, 65-70, 71-80, 81-90, 91-98, 99-108, 109-114, 115-120, 163-172, 173-178, 179-184, 185-194, 201-208, 209-216, 217-224, 353-360, 361-368 H/R: 9-10, 11-12, 13-14, 15-16, 17-18, 19-20, 21-22, 23-24, 25-26, 27-28, 29-30, 41-42, 43-44, 45-46, 47-48, 51-52, 53-54, 55-56, 91-92, 93-94, 95-96

***Houghton Mifflin Math Expressions, Grade K-5 correlated to
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Washington Exemplary Mathematics Standards	<i>Houghton Mifflin Math Expressions</i>
3.C.2 Add or subtract with numbers less than 100 using mental arithmetic.	SAB: 43 TG: 58, 59, 64, 65, 80, 81, 89, 98, 99, 108, 109, 115, 118, 120 H/R: 14, 16, 20, 24, 26, 30
3.C.3 Estimate results of whole-number addition and subtraction.	SAB: 124, 129, 130 TG: 270-272, 277-280 H/R: 65, 67
3.C.4 Represent multiplication by repeated addition and arrays. Represent division as sharing and grouping	SAB: 199-202, 203-214, 243-272, 327-330 TG: 429-436, 437-448, 455-458, 505-512, 597-604 H/R: 107, 109-111, 115, 141-169, 203-205
3.C.5 Multiply and divide numbers up to a 3-digit number by a 1- digit number.	SAB: 193-198, 199-202, 203-214, 215-218, 219, 222, 223-226, 227-230, 231-236, 237-242, 243-272, 273-276, 279-281, 283-286, 287-288, 289-296, 293-304, 323-326, 327-330, 331-334, 335-338, 339-340, 341-346, 349-352, 353-358, 359-368, 369-374, 375-378, 379-384, 385-396 TG: 419-428, 429-436, 437-448, 449-458, 459-468, 469-476, 477-486, 487-494, 495-504, 505-512, 513-518, 519-526, 527-534, 535-544, 545-550, 551-560, 587-596, 597-604, 605-614, 615-620, 621-630, 631-640, 641-648, 649-656, 657-662, 663-672, 673-680, 681-686, 687-692 H/R: 105, 107, 111, 115, 121, 125, 127, 135, 139, 169, 171, 177, 179, 180, 181, 185, 186, 191, 192, 201, 205, 209, 211, 215, 217, 218, 219, 220, 223, 227, 229, 230, 231, 232, 233, 234, 235, 236
3.C.6 Compute and check results for multiplication and division using the inverse relationship.	SAB: 215, 217 TG: 450-458, 591 H/R: 115
<i>Fractions & Decimals (F)</i>	
3.F.1 Represent fractions of a whole and parts of a group.	SAB: 417-422, 423-424, 425-426, 431-434 TG: 727-736, 737-742, 743-748, 761-768, 773 H/R: 243, 245, 247, 253, 254
3.F.2 Identify and name numerators and denominators.	SAB: 417 TG: 728-729

***Houghton Mifflin Math Expressions, Grade K-5 correlated to
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Washington Exemplary Mathematics Standards	<i>Houghton Mifflin Math Expressions</i>
3.F.3 Compare and order fractions with denominators from 2 to 12.	SAB: 462, 463, 464, 465 TG: 828-829, 830, 832, 834, 838, 839, 840 H/R: 269, 271
3.F.4 Identify, name and use equivalent fractions with denominators 2, 4 and 8.	SAB: 439, 441, 452 TG: 781-784, 787, 789-794, 800, 801, 806, 807 H/R: 257, 259, 262
3.F.5 Add and subtract simple fractions with the same denominator.	SAB: 418-419, 455-460, 461-464, 466 TG: 730-736, 815-824, 825-831, 835-836, 840 H/R: 243, 267, 269, 271
3.F.6 Solve problems involving addition and subtraction of money amounts in decimal notation.	SAB: 25, 26, 27, 28, 29, 30, 38, 138 TG: 54-57, 61-63, 67-70, 85-86, 89, 95-96, 112, 114, 117, 299-300, 302 H/R: 13, 17, 21, 27, 73
3.F.7 Solve multiplication and division problems with money amounts in decimal notation and whole-number multipliers and divisors.	TG: 475
<i>Algebra & Functions (A)</i>	
3.A.1 Define and correctly apply the commutative and associative properties of multiplication.	SAB: 210, 288 TG: 443-447, 539, 541-542 H/R: 183
3.A.2 Apply appropriate symbols for operations and relations to make a mathematical expression true.	SAB: 132 TG: 285-286 H/R: 69
3.A.3 Represent relationships of quantities in the form of mathematical expressions, equations, or inequalities.	<i>These are some of the many examples:</i> 18, 24, 30, 116, 278, 428, 485, 514, 612, 851
<i>Geometry & Measurement (G)</i>	
3.G.1 Identify and describe points, segments, rays, lines, and angles.	SAB: 53, 111, 117, 118 TG: 134, 244, 254-256, 259 H/R: 61, 63
3.G.2 Identify, describe, and draw parallel, perpendicular, and oblique lines.	SAB: 54, 56 TG: 133-138, 230 H/R: 33
3.G.3 Identify, describe, and classify polygons (including quadrilaterals, pentagons, hexagons, and octagons) and their attributes.	SAB: 57-64, 65-66, 67-68, 70, 111-116 TG: 139-146, 147-152, 153-158, 243-252 H/R: 35-36, 37, 39, 61-62, 242

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Washington Exemplary Mathematics Standards	<i>Houghton Mifflin Math Expressions</i>
3.G.4 Identify, describe, and classify: cube, sphere, prism, pyramid, cone, and cylinder.	SAB: 479-486, 487-492, 493-498, 499-502, 503-504 TG: 873-878, 879-886, 887-892, 893-904 H/R: 281, 283, 285, 287, 289
3.G.5 Measure length, weight, volume, and time using metric and U.S. units.	SAB: 47-52, 69, 399-406, 407-412, 413-414, 507-510, 511-512, 513-516, 517-518, 519-522, 523-524, 525-526, 527-528, 529-532, 533-534, 535-536 TG: 125-132, 701-708, 709-716, 717-722, 909-916, 917-922, 923-932, 933-938, 939-946, 947-952, 953-958, 959-964, 965-972, 973-978, 979-984 H/R: 31, 37, 237, 239, 241, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309
3.G.6 Tell time to the nearest minute and determine elapsed time.	SAB: 399-406, 410-412 TG: 701-708, 712-716 H/R: 237, 239
3.G.7 Carry out simple unit conversions within a measurement system.	SAB: 511, 514, 515, 519, 520, 523, 527, 529, 531 TG: 918-919, 921, 926-928, 940-942, 945, 949, 951, 960-963, 967, 969 H/R: 293, 295, 298, 299, 301, 305, 307
3.G.8 Add and subtract length, weight, volume, and time in mixed units, within the same measurement system.	SAB: 57, 69, 517-518, 524, 530, 532 TG: 933-938, 950, 968, 970 H/R: 35, 297
3.G.9 Solve word problems involving money, length, and time.	SAB: 25, 26, 27, 28, 29, 30, 38, 138, 139, 140, 142, 143, 511, 512, 518 TG: 54-57, 61-63, 67-70, 85-86, 95-96, 112, 114, 117, 299-300, 302, 304-308, 312-316, 712, 714, 716, 918, 920, 936 H/R: 13, 17, 21, 27, 73, 75, 77, 239, 298
3.G.10 Describe the difference between area and perimeter and calculate both for rectangles with whole number side lengths.	SAB: 307-312, 313-314, 315-318 TG: 561-568, 569-574, 575-582 H/R: 193, 195, 197
<i>Data (D)</i>	
3.D.1 Interpret data displayed in a circle graph (pie chart) and bar graph and answer questions about the situation.	SAB: 167-170, 171-174, 351, 427, 435, 436 TG: 369-376, 377-384, 645, 647, 695, 751, 770-773 H/R: 93, 94, 255

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Washington Exemplary Mathematics Standards	<i>Houghton Mifflin Math Expressions</i>
3.D.2 Summarize and display the results of experiments with tables, bar graphs or line plots.	SAB: 153, 169 TG: 331, 334-336, 337, 338, 374, 385-388, 695, 779 H/R: 83

SAB = Student Activity Book

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***Houghton Mifflin Math Expressions, Grade K-5 correlated to
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Washington Exemplary Mathematics Standards	<i>Houghton Mifflin Math Expressions</i>
<i>Number Sense (N)</i>	
5.N.1 Identify place value of digits to the billions.	SAB: 95, 105, 106, 111, 112 TG: 163H, 164-165, 167, 171, 183-185, 189, 192-193, 195, 203, 209, 223 H/R: 51, 53, 54
5.N.2 Decide if division problem answers are reasonable using estimation.	TG: 619-624
5.N.3 Find the least common multiple and the greatest common factor of whole numbers.	SAB: 215, 216, 220 TG: 438, 454-457, 458, 461, 469, 471 H/R:
5.N.4 Round whole numbers and decimals to any place value.	SAB: 127, 128, 129, 273, 275 TG: 60, 238-241, 243, 251, 257, 259, 263, 271, 279, 287, 296, 265, 584 H/R: 67, 69, 74, 159
<i>Computation (C)</i>	
5.C.1 Add and subtract positive and negative integers and verify the reasonableness of the results.	TG: 687-689
5.C.2 Divide 4 digit numbers by 2 digit numbers fluently using long division.	SAB: 2920, 292, 293 TG: 613-617, 620-623, 626-628 H/R: 169
5.C.3 Show division by tens, hundreds, and thousands without using a calculator.	TG: 569, 597
5.C.4 Solve multi-step word problems using division of whole numbers.	SAB: 60 TG: 99-101 H/R: 29, 30
5.C.5 Understand that exponents represent repeated multiplication	Unit 8 Lesson 1, 2009 edition
5.C.6 Determine prime factors of all numbers through 100; write the numbers as the product of their prime factors using exponents to show multiples of a factor.	SAB: 15 TG: 28, 67, 438
5.C.7 Solve problems using order of operations, including parentheses.	TG: 102, 111
<i>Fractions & Decimals (F)</i>	

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Washington Exemplary Mathematics Standards	<i>Houghton Mifflin Math Expressions</i>
5.F.1 Add and subtract fractions including mixed numbers with different denominators.	SAB: 184, 189, 192 TG: 345G, 342-349, 363-365, 367, 371-372, 392-394, 396-400, 410-414, 452-455, 459, 467-468, 473 H/R: 97, 101, 103, 109, 111, 113, 115, 124, 125, 127, 128, 129
5.F.2 Identify on a number line the relative position of non-negative fractions, mixed numbers, and decimals.	SAB: 195, 199, 206 TG: 345H, 390-391, 403, 407
5.F.3 Arrange decimals in numerical order to two decimal places and use symbols for less than (<), equals (=), and greater than (>).	TG: 167, 172, 296 H/R: 47, 51, 56, 64
5.F.4 Add and subtract decimals using the standard algorithm.	SAB: 116, 118 TG: 176-177, 199-200, 207, 296 H/R: 49, 57, 59
5.F.5 Multiply and divide decimals up to 2 decimal places by a 1-digit whole number where the division results in terminating decimals.	SAB: 257, 258, 259, 267 TG: 552-555, 570-572 H/R: 153
<i>Algebra & Functions (A)</i>	
5.A.1 Represent an unknown number with a variable.	SAB: 14, 18, 21, 22 TG: 12, 27, 40, 49, 55 H/R: 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
5.A.2 Recognize that an equation such as $y = 3x + 5$ is a rule for finding a second number when a first number is given.	SAB: 27, 28 TG: 52-56 H/R: 15
5.A.3 Solve numerical equations and evaluate expressions using the distributive property $a(b + c) = ab + ac$.	SAB: 62, 124 TG: 102-109, 111, 225-227, 528, 531 H/R: 31, 63, 104
5.A.4 Identify X and Y coordinates of points on a graph. Graph ordered pairs of positive and negative coordinates in all four quadrants of the coordinate plane.	SAB: 327, 328, 329, 332, 333, 336 TG: 672-674, 675-676, 682-685, 690, 702 H/R: 185
5.A.5 Find and graph ordered pairs that fit a linear equation using positive numbers only. Draw the line they determine.	SAB: 331, 332, 333, 334 TG: 680-685 H/R: 185

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Washington Exemplary Mathematics Standards	<i>Houghton Mifflin Math Expressions</i>
5.A.6 Relate the length of a horizontal line segment to the difference between x-coordinates, and a vertical line segment to the difference between y-coordinates on a coordinate plane.	TG: 690
<i>Geometry & Measurement (G)</i>	
5.G.1 Measure, identify, and draw rectangles, triangles, and circles by using appropriate tools (e.g., straightedge, ruler, protractor, compass).	SAB: 75, 76, 87, 156, 157, 165, 167 TG: 130, 144, 297F, 300, 303 H/R:
5.G.2 Identify properties of geometric solids (for example prisms and pyramids) in terms of the number and shape of faces, edges, and vertices.	SAB: 373, 375, 383, 384 TG: 480, 808-810, 812, 813, 817, 818, 819, 820, 821, 827, 832 H/R: 219
5.G.3 Apply formulas and solve problems for the area of a triangle, parallelogram, and trapezoid.	SAB: 76, 79, 83, 84, 86, 87, 88, 89 TG: 117F, 131-133, 135, 138-141, 145, 149, 154 H/R: 37, 39, 41, 42
5.G.4 Find the surface area and volume of rectangular solids using metric and U.S. units.	SAB: 224, 230, 375, 387 TG: 479E, 479F, 481-484, 489-491, 811-812, 820, 830, 832 H/R: 131, 133, 217, 219
5.G.5 Measure weight using small and large units. Make conversions between ounce, pound, and ton and between gram and kilogram.	SAB: 233, 234 TG: 500-504 H/R: 137
<i>Data (D)</i>	
5.D.1 Answer questions about problem situations using information from graphs and equations.	SAB: 19, 125, 126, 131, 132, 133, 134, 135, 137, 138, 140, 177 TG: 34, 230-235, 246-250, 252-255, 258-262, 296, 333, 353, 381 H/R: 67, 71, 73, 93, 94
5.D.2 Read bar and line graphs to solve problems. Create line and bar graphs to display information.	SAB: 131, 133, 134, 135, 137, 138, 140 TG: 34, 246-247, 249, 252-256, 258-259, 261 H/R: 19, 69, 71, 73, 94

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