

Houghton Mifflin Math Expressions
Grade K
 correlated to
Illinois Learning Standards for Mathematics

Illinois Learning Standards for Mathematics Early Elementary	<i>Houghton Mifflin Math Expressions</i>
STATE GOAL 6: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions.	
A. Demonstrate knowledge and use of numbers and their representations in a broad range of theoretical and practical settings.	
6.A.1a Identify whole numbers and compare them using the symbols $<$, $>$, or $=$ and the words “less than”, “greater than”, or “equal to”, applying counting, grouping and place value concepts.	SAB: 125, 127–128, 131, 132, 201, 204, 213, 216, 258, 261 TG: 50, 239, 244, 262–263, 266–269, 375, 397–398, 419, 421, 425, 430, 507, 510–511, 552, 560–561, 667 H/R: 109, 179
6.A.1b Identify and model fractions using concrete materials and pictorial representations.	
B. Investigate, represent and solve problems using number facts, operations (addition, subtraction, multiplication, division) and their properties, algorithms and relationships.	
6.B.1 Solve one- and two-step problems with whole numbers using addition, subtraction, multiplication and division.	SAB: 235, 237, 281, 301 TG: 197, 208, 217, 224–225, 248–250, 396–397, 423–426, 469–472, 536–537, 574
C. Compute and estimate using mental mathematics, paper-and-pencil methods, calculators and computers.	
6.C.1a Select and perform computational procedures to solve problems with whole numbers.	SAB: 223, 224, 225, 240, 257, 258, 313, 319 TG: 192, 194, 197, 200, 210, 218, 226, 238, 252, 254–255, 274, 324, 364, 376, 400, 406, 438, 440, 442–443, 444, 446, 447, 449, 450, 452, 453–455, 456, 479, 484, 504, 505–506, 507, 592, 598–599, 602, 606, 608 H/R: 117, 127
6.C.1b Show evidence that whole number computational results are correct and/or that estimates are reasonable.	SAB: 219, 223, 224, 225, 240, 257, 313, 319 TG: 192, 194, 197, 200, 210, 218, 226, 238, 252, 254–255, 274, 324, 364, 376, 400, 406, 438, 440, 442–443, 444, 446, 447, 449, 450, 452, 453–454, 479, 484, 504, 505–506, 507, 592, 598–599, 602, 606, 608, 624 H/R: 127
D. Solve problems using comparison of quantities, ratios, proportions and percents.	
6.D.1 Compare the numbers of objects in groups.	SAB: 166, 201, 204, 213, 216 TG: 51, 338, 397, 410, 422, 425, 430 H/R: 109, 111, 113

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STATE GOAL 7: Estimate, make and use measurements of objects, quantities and relationships and determine acceptable levels of accuracy.	
A. Measure and compare quantities using appropriate units, instruments and methods.	
7.A.1a Measure length, volume and weight/mass using rulers, scales and other appropriate measuring instruments in the customary and metric systems.	TG: 277–278, 280, 650
7.A.1b Measure units of time using appropriate instruments (e.g., calendars, clocks, watches—both analog and digital).	SAB: 339, 343, 645 TG: 632, 633, 634, 636, 637, 642, 646, 647, 648 H/R: 169, 171, 173
7.A.1c Identify and describe the relative values and relationships among coins and solve addition and subtraction problems using currency.	SAB: 329, 330, 333, 334 TG: 241, 266, 306, 620–621, 622, 623, 624, 626, 627, 628, 630 H/R: 165
7.A.1d Read temperatures to the nearest degree from Celsius and Fahrenheit thermometers.	
B. Estimate measurements and determine acceptable levels of accuracy.	
7.B.1a Given a problem, describe possible methods for estimating a given measure.	SAB: 349 TG: 653
7.B.1b Compare estimated measures to actual measures taken with appropriate measuring instruments.	
C. Select and use appropriate technology, instruments and formulas to solve problems, interpret results and communicate findings.	
7.C.1 Determine perimeter and area using concrete materials (e.g., geoboards, square tiles, grids, measurement instruments).	
STATE GOAL 8: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results.	
A. Describe numerical relationships using variables and patterns.	
8.A.1a Identify, describe and extend simple geometric and numeric patterns.	SAB: 65, 66, 93, 95, 123, 203, 215 TG: 146–147, 148, 150–152, 153, 154, 202–204, 205, 256, 390–391, 394, 408–409, 428–430, 432

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8.A.1b Solve simple number sentences (e.g., $2 + \square = 5$).	SAB: 189, 207, 217, 219, 225, 226, 232, 235, 237, 240, 257, 258, 261, 269, 277, 279, 283, 285, 311, 313 TG: 368–369, 376, 382, 414, 426, 435, 442, 444, 453, 455, 466, 468, 470–471, 472, 479, 504, 507, 511, 518, 521, 522, 526, 527, 528, 533, 534, 545, 545, 549, 550, 595, 598–599, 606 H/R: 95, 97, 101, 103, 107, 125, 127, 133, 149, 151, 161
B. Interpret and describe numerical relationships using tables, graphs and symbols.	
8.B.1 Solve problems involving pattern identification and completion of patterns.	SAB: 65, 93, 95, 107, 123, 131, 200, 255 TG: 145, 146, 148, 150, 151, 152, 154, 185, 190, 202, 203, 205, 206, 229, 256, 267, 270, 289, 292, 391, 393, 394, 429, 432, 499 H/R: 35, 53, 67, 73, 79, 123, 131, 141, 159
C. Solve problems using systems of numbers and their properties.	
8.C.1 Describe the basic arithmetic operations (addition, subtraction, multiplication, division) orally, in writing and using concrete materials and drawings.	TG: 133, 170, 210, 214, 217, 226, 238, 241, 249, 252, 263, 268, 272, 274, 305, 354, 376, 426, 540, 592
D. Use algebraic concepts and procedures to represent and solve problems.	
8.D.1 Find the unknown numbers in whole-number addition, subtraction, multiplication and division situations.	SAB: 189, 207, 217, 219, 225, 226, 227, 232, 235, 237, 240, 241, 257, 258, 261, 269, 277, 279, 283, 285, 311, 313 TG: 369, 376, 382, 414, 426, 435, 422, 444, 453, 455, 460, 466, 468, 470–471, 472, 479, 482, 484, 504, 507, 511, 521, 522, 522, 527, 533, 534, 545, 549, 595, 598–599 H/R: 95, 97, 101, 103, 107, 125, 127, 133, 149, 151, 161
STATE GOAL 9: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space.	
A. Demonstrate and apply geometric concepts involving points, lines, planes and space.	
9.A.1a Identify related two- and three-dimensional shapes including circle-sphere, square-cube, triangle-pyramid, rectangle-rectangular prism and their basic properties.	TG: 55, 74, 284–285, 286, 327, 458–459, 474–475, 476

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9.A.1b Draw two-dimensional shapes.	SAB: 23, 30, 36, 63, 66, 71, 73, 83, 90, 99 TG: 58, 64, 76, 79, 80, 82, 89, 90, 143, 153, 161, 164, 168, 179, 186, 193, 213, 230 H/R: 21, 41, 61
B. Identify, describe, classify and compare relationships using points, lines, planes and solids.	
9.B.1a Identify and describe characteristics, similarities and differences of geometric shapes.	TG: 55, 74, 284–285, 286, 327, 458–459, 474–475, 476
9.B.1b Sort, classify and compare familiar shapes.	SAB: 19, 21, 27, 85, 137, 152, 245, 246 TG: 60–61, 74–75, 184–185, 288, 290, 298, 301, 346, 486–487, 488, 564, 594
9.B.1c Identify lines of symmetry in simple figures and construct symmetrical figures using various concrete materials.	
C. Construct convincing arguments and proofs to solve problems.	
9.C.1 Draw logical conclusions and communicate reasoning about simple geometric figures and patterns using concrete materials, diagrams and contemporary technology.	TG: 55, 63, 64, 75, 76, 165, 185, 204, 221, 284–285, 327, 458–461, 474–475, 476, 520, 613
D. Use trigonometric ratios and circular functions to solve problems.	
No benchmark expectations at this grade level.	
STATE GOAL 10: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability.	
A. Organize, describe and make predictions from existing data.	
10.A.1a Organize and display data using pictures, tallies, tables, charts or bar graphs.	SAB: 231, 233, 239, 307, 317 TG: 40–42, 44, 51, 66, 74, 84, 94, 104, 112–113, 116, 128, 146, 160, 170, 188, 279, 464–465, 467, 478, 480, 588–589, 604
10.A.1b Answer questions and make predictions based on given data.	TG: 112–113, 279, 464–465, 467, 480, 591, 604
B. Formulate questions, design data collection methods, gather and analyze data and communicate findings.	
10.B.1a Formulate questions of interest and design surveys or experiments to gather data.	

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10.B.1b Collect, organize and describe data using pictures, tallies, tables, charts or bar graphs.	SAB: 231, 233, 239, 307, 317 TG: 40–42, 44, 51, 66, 74, 84, 94, 104, 112–113, 116, 128, 146, 160, 170, 188, 279, 464–465, 467, 478, 480, 588–589, 604
10.B.1c Analyze data, draw conclusions and communicate the results.	TG: 112–113, 279, 464–465, 467, 478, 480, 604
C. Determine, describe and apply the probabilities of events.	
10.C.1a Describe the concept of probability in relationship to likelihood and chance.	
10.C.1b Systematically list all possible outcomes of a simple one-stage experiment (e.g., the flip of one coin, the toss of one die, the spin of a spinner).	