

***State Goal 6: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions.***

*As a result of their schooling students will be able to:*

<b>Illinois Learning Standard</b>	<b>Illinois Benchmark</b>	<b>Houghton Mifflin <i>MATHEMATICS</i></b>
A. Demonstrate knowledge and use of numbers and their representation 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.	TE: xxvi, xxvii, 2, 4–5, 6, 11, 16–19, 20–21, 32–33, 34–35, 56, 70, 102–103 PE: 2, 4–5, 6, 11, 16–19, 20–21, 32–33, 34–35, 56, 70, 102–103
	6.A.1b Identify and model fractions using concrete materials and pictorial representations.	TE: 512–517 PE: 512–517
B. Investigate, represent and solve problems by 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.	TE: 104–106, 107, 108–111, 116–118, 120–121, 126, 128–130, 132–133, 138, 139, 140–142, 212–213, 214–216, 218–219, 220–221, 222–223, 228–229, 230–231, 236–237, 258–259, 260–261, 268–269, 270–271, 275–276, 382, 398–400, 424, 428, 544–545, 546–549, 551, 552–559, 586, 590 PE: 104–106, 107, 108–111, 116–118, 120–121, 126, 128–130, 132–133, 138, 139, 140–142, 212–213, 214–216, 218–219, 220–221, 222–223, 228–229, 230–231, 236–237, 258–259, 260–261, 268–269, 270–271, 275–276, 382, 398–400, 424, 428, 544–545, 546–549, 551, 552–559, 586, 590

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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.	TE: 10, 60, 64–65, 91, 188–189, 191, 201, 216, 259, 319, 358, 364–365, 385, 400, 506 PE: 10, 60, 64–65, 91, 188–189, 191, 201, 216, 259, 319, 358, 364–365, 385, 400, 506
	6.C.1b Show evidence that whole number computational results are correct and/or that estimates are reasonable.	TE: 10, 12–13, 23, 37, 43, 60, 106, 110–111, 112–113, 134–135, 139, 149, 171, 174, 185, 188–189, 191, 225, 239, 245, 269, 271, 319, 337, 358, 379, 400, 405, 421, 450, 491, 522, 527, 545, 571 PE: 10, 12–13, 23, 37, 43, 60, 106, 110–111, 112–113, 134–135, 139, 149, 171, 174, 185, 188–189, 191, 225, 239, 245, 269, 271, 319, 337, 358, 379, 400, 405, 421, 450, 491, 522, 527, 545, 571
D. Solve problems, using comparison of quantities, ratios, proportions and percents.	6.D.1 Compare the numbers of objects in groups.	TE: 20–21, 400, 550, 579 PE: 20–21, 400, 550, 579

***State Goal 7: Estimate, make and use measurements of objects, quantities and relationships to determine acceptable levels of accuracy.***

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<b>Illinois Learning Standard</b>	<b>Illinois Benchmark</b>	<b>Houghton Mifflin <i>MATHEMATICS</i></b>
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.	TE: 158–159, 160–166, 168, 170, 172, 182–183, 184–185, 186–187, 190–191 PE: 158–159, 160–166, 168, 170, 172, 182–183, 184–185, 186–187, 190–191

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	7.A.1b Measure units of time using appropriate instruments (e.g., calendars, clocks, watches—both analog and digital).	TE: 68–69, 74–75, 80–82, 90, 97 PE: 68–69, 74–75, 80–82, 90, 97
	7.A.1c Identify and describe the relative values and relationships among coins and solve addition and subtraction problems using currency.	TE: 56–57, 58–60, 61, 88, 92, 105–106, 108–109, 116–117, 120–121, 129–130, 132–133, 526–527 PE: 56–57, 58–60, 61, 88, 92, 105–106, 108–109, 116–117, 120–121, 129–130, 132–133, 526–527
	7.A.1d Read temperatures to the nearest degree from Celsius and Fahrenheit thermometers.	TE: 176–177, 192–193 PE: 176–177, 192–193
B. Estimate measurements and determine acceptable levels of accuracy.	7.B.1a Given a problem, describe possible methods for estimating a given measure.	TE: 82, 83, 160–163, 165, 168–171, 172–174, 176–177, 182–185, 186–187, 190–191, 192–193, 194–195, 332–333 PE: 82, 83, 160–163, 165, 168–171, 172–174, 176–177, 182–185, 186–187, 190–191, 192–193, 194–195, 332–333
	7.B.1b Compare estimated measures to actual measures taken with appropriate measuring instruments.	TE: 82, 83, 160–163, 165, 168–171, 172–174, 176–177, 182–185, 186–187, 190–191, 192–193, 194–195, 332–333 PE: 82, 83, 160–163, 165, 168–171, 172–174, 176–177, 182–185, 186–187, 190–191, 192–193, 194–195, 332–333
C. Select and use appropriate technology, instruments and formulas to solve problems, interpret results and	7.C.1 Determine perimeter and area using concrete materials (e.g., geoboards, square tiles, grids, measurement	TE: 296, 318–319, 322–323, 341, 342 PE: 296, 318–319, 322–323, 341, 342

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communicate findings.	instruments).	
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***State Goal 8: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results.***

*As a result of their schooling students will be able to:*

Illinois Learning Standard	Illinois Benchmark	Houghton Mifflin <i>MATHEMATICS</i>
A. Describe numerical relationships, using variables and patterns.	8.A.1a Identify, describe and extend simple geometric and numeric patterns.	TE: 28–29, 43, 222, 256–257, 270, 274–276, 301, 308–309, 324–325, 343, 544–545, 590 PE: 28–29, 43, 222, 256–257, 270, 274–276, 301, 308–309, 324–325, 343, 544–545, 590
	8.A.1b Solve simple number sentences (e.g., $2 + 0 = 5$ ).	TE: 100–101, 210–211, 212, 214, 218–219, 220, 228, 230, 236, 258, 268, 352–353, 386, 412–413, 419 PE: 100–101, 210–211, 212, 214, 218–219, 220, 228, 230, 236, 258, 268, 352–353, 386, 412–413, 419
B. Interpret and describe numerical relationships, using tables, graphs and symbols.	8.B.1 Solve problems involving pattern identification and completion of patterns.	TE: 28–29, 43, 57, 69, 165, 222, 256–257, 265, 270, 273, 274–276, 301, 308–309, 324–325, 335, 343, 373, 487, 544–545, 557, 590 PE: 28–29, 43, 57, 69, 165, 222, 256–257, 265, 270, 273, 274–276, 301, 308–309, 324–325, 335, 343, 373, 487, 544–545, 557, 590
C. Solve problems by using systems of numbers and their properties.	8.C.1 Describe the basic arithmetic operations (addition, subtraction,	TE: 104, 126, 128, 212–213, 546–549, 354–358, 360–363, 364–366, 488, 490,

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	multiplication, division) orally, in writing and using concrete materials and drawings.	492–493, 500, 504–505, 512–517, 574–575 PE: 104, 126, 128, 212–213, 546–549, 354–358, 360–363, 364–366, 488, 490, 492–493, 500, 504–505, 512–517, 574–575
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.	TE: 100, 212, 214, 218–21, 220, 228, 230, 236, 258, 268, 412–413 PE: 100, 212, 214, 218–21, 220, 228, 230, 236, 258, 268, 412–413

***State Goal 9: Use geometric methods to analyze, categorize, and draw conclusions about points, lines, planes, and space.***

*As a result of their schooling students will be able to:*

<b>Illinois Learning Standard</b>	<b>Illinois Benchmark</b>	<b>Houghton Mifflin <i>MATHEMATICS</i></b>
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.	TE: See Levels K, 1, and 2. PE: See Levels K, 1, and 2.
	9.A.1b Draw two-dimensional shapes.	TE: 296–297, 302–307, 328–330 PE: 296–297, 302–307, 328–330
B. Identify, describe, classify and compare relationships by using points, lines, planes and solids.	9.B.1a Identify and describe characteristics, similarities and differences of geometric shapes.	TE: 302–303, 305–307, 348 PE: 302–303, 305–307, 348
	9.B.1b Sort, classify and compare familiar shapes.	TE: 302–303, 305–307, 348 PE: 302–303, 305–307, 348

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	9.B.1c Identify lines of symmetry in simple figures and construct symmetrical figures using various concrete materials.	TE: 316–317 PE: 316–317
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.	TE: 301, 308–309 PE: 301, 308–309

***State Goal 10: Collect, organize and analyze data by using statistical methods; predict results and interpret uncertainty by using concepts of probability.***

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<b>Illinois Learning Standard</b>	<b>Illinois Benchmark</b>	<b>Houghton Mifflin <i>MATHEMATICS</i></b>
A. Organize, describe and make predictions from existing data.	10.A.1a Organize and display data using pictures, tallies, tables, charts or bar graphs.	TE: 438–439, 440–441, 445 PE: 438–439, 440–441, 445
	10.A.1b Answer questions and make predictions based on given data.	TE: 19, 23, 72, 130, 135, 166, 174, 239, 271, 330, 361, 375, 409, 417, 441, 464–465, 495, 515, 550, 559, 575, 579 PE: 19, 23, 72, 130, 135, 166, 174, 239, 271, 330, 361, 375, 409, 417, 441, 464–465, 495, 515, 550, 559, 575, 579
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.	TE: 438–439 PE: 438–439
	10.B.1b Collect, organize and describe data using pictures, tallies, tables, charts or bar graphs.	TE: 438–439, 440–441, 445, 464–465 PE: 438–439, 440–441, 445, 464–465

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	10.B.1c Analyze data, draw conclusions and communicate the results.	
C. Determine, describe, and apply the probabilities of events.	10.C.1a Describe the concept of probability in relationship to likelihood and chance.	TE: 437, 458–459, 460–462, 463, 464–465, 467 PE: 437, 458–459, 460–462, 463, 464–465, 467
	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).	TE: 460–462 PE: 460–462