

Houghton Mifflin Math 2007
Grade 3
 correlated to
Illinois Learning Standards for Mathematics

| Illinois Learning Standards for Mathematics Early Elementary | <i>Houghton Mifflin Math 2007</i> |
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| 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. | PE: 27, 28–29 TE: 28A–28B, 28–29, 30A–30B, 36A, 38 |
| 6.A.1b Identify and model fractions using concrete materials and pictorial representations. | PE: 497, 498–499, 500–501, 502–503, 505, 507, 508–509, 510–511, 513, 515, 519 TE: 494C, 498A–498B, 498–499, 500A–500B, 500–501, 502B, 502–503, 505, 506B, 507, 508A–508B, 508–509, 510A–510B, 510–511, 512A–512B, 512, 514, 515, 519 |
| 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. | PE: 75, 82–85, 86–89, 94–95, 98–99, 101, 107, 116–119, 120–123, 124–127, 128–129, 210–211, 212–215, 216–217, 218–219, 224–227, 234–235, 236–237, 240–241, 242–245, 246–248, 254–255, 266–267, 270–271, 272–273, 290–291, 292–293, 296–297, 304–305, 306–308, 310–311 TE: 75, 82A–82B, 82–85, 86A–86B, 86–89, 94A–94B, 94–95, 98A–98B, 98–99, 101, 107, 116A–116B, 116–119, 120A–120B, 120–123, 124A–124B, 124–127, 128A–128B, 128–129, 210A–210B, 210–211, 212A–212B, 212–215, 216A–216B, 216–217, 218A–218B, 218–219, 224A–224B, 224–227, 234A–234B, 234–235, 236A–236B, 236–237, 240A–240B, 240–241, 242A–242B, 242–245, 246A–246B, 246–248, 254A–254B, 254–255, 266A–266B, 266–267, 270A–270B, 270–271, 272A–272B, 272–273, 290A–290B, 290–291, 292A–292B, 292–293, 296A–296B, 296–297, 304A–304B, 304–305, 306A–306B, 306–308, 310A–310B, 310–311 |

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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. | PE: 16, 100–101, 126, 222, 456, 562, 596, 604, 630, 631 TE: 16, 100A–100B, 100–101, 126, 222, 562, 604, 630, 631 |
| 6.C.1b Show evidence that whole number computational results are correct and/or that estimates are reasonable. | PE: 82, 83, 86, 87, 94, 95, 98, 99, 117, 118, 120, 121 TE: 82, 86, 88, 94, 98, 99, 116, 117, 118, 120, 122 |
| D. Solve problems using comparison of quantities, ratios, proportions and percents. | |
| 6.D.1 Compare the numbers of objects in groups. | TE: 28B, 508B, 518D, 521, 524B |
| 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. | PE: 354–357, 359, 363, 372, 382–383, 394, 476–477 TE: 354B, 354–357, 358A–358B, 358–359, 363, 376B, 382A–382B, 382–383, 384B, 394B, 476B, 476–477, 478B |
| 7.A.1b Measure units of time using appropriate instruments (e.g., calendars, clocks, watches—both analog and digital). | PE: 330–331, 332–333, 334–335, 336–337, 339, 340–342 TE: 328D, 330A–330B, 330–331, 332A–332B, 332–333, 334A–334B, 334–335, 336A–336B, 336–337, 338, 339, 340A–340B, 340–342, 344B |
| 7.A.1c Identify and describe the relative values and relationships among coins and solve addition and subtraction problems using currency. | PE: 46–47, 48–49, 50–51, 52–55, 83–84, 87, 95, 99, 112, 113, 115, 117, 118 TE: 46A–46B, 46–47, 48A–48B, 48–49, 50A–50B, 50–51, 52A–52B, 52–55, 83–84, 86, 88, 94–95, 96, 98–99, 101, 112–115, 116, 118 |
| 7.A.1d Read temperatures to the nearest degree from Celsius and Fahrenheit thermometers. | PE: 346–348 TE: 346A–346B, 346–348 |
| B. Estimate measurements and determine acceptable levels of accuracy. | |
| 7.B.1a Given a problem, describe possible methods for estimating a given measure. | PE: 354, 368–369, 372, 382 TE: 354, 368–369, 372, 382 |

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| 7.B.1b Compare estimated measures to actual measures taken with appropriate measuring instruments. | PE: 354–357, 363, 368–369, 372, 382, 383, 386 TE: 354B, 354–357, 363, 368B, 368–369, 372, 382B, 382–383, 384B, 386, 394 |
| 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). | PE: 464, 465, 466, 468–469, 471, 472, 473 TE: 464B, 464, 468B, 468–469, 470A–470B, 470, 471, 472, 473, 474B |
| 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. | PE: 14–15, 23, 126, 428, 430, 467 TE: 14A–14B, 14–15, 23, 126, 232B, 242B, 270B, 330B, 370B, 428A–428B, 428, 430, 432A, 467 |
| 8.A.1b Solve simple number sentences (e.g., $2 + \square = 5$). | PE: 109, 111, 126, 131, 209, 211, 213–214, 217, 225–226, 267, 271, 273, 279–281, 287, 289, 293, 296, 298, 304–305, 306–307, 308, 310, 311, 312 TE: 109, 111, 126, 131, 209, 211, 213–214, 217, 219, 225–226, 267, 271, 273, 279–281, 287, 289, 291, 293, 294, 296, 297, 298, 304–305, 306–307, 308, 310, 311, 312 |
| B. Interpret and describe numerical relationships using tables, graphs and symbols. | |
| 8.B.1 Solve problems involving pattern identification and completion of patterns. | PE: 14, 23, 126, 428, 467 TE: 14A–14B, 14, 23, 126, 232B, 270B, 370B, 428A–428B, 428, 432A, 467 |
| 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. | PE: 75, 82–85, 86–89, 94–95, 98–99, 107, 116, 120–123, 124, 128–129, 210–211, 212–215, 216–217, 218–219, 224, 234–235, 236–237, 240–241, 242, 246–248, 254–255, 266–267, 270–271, 272–273, 290–291, 292, 296–297, 304, 306–308, 310–311 TE: 75, 82A–82B, 82–85, 86A, 86–89, 94A, 94–95, 98A, 98, 107, 116A–116B, 116, 120A–120B, 120–123, 124A, 124–127, 128A, 128–129, 210A–210B, 210–211, 212A–212B, 212–215, 216A–216B, 216–217, 218A, 218–219, 224A–224B, 224, 234A–234B, 234–235, 236A–236B, |

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| | 236–237, 240A–240B, 240–241, 242A, 242–245, 246A, 246–248, 254A, 254–255, 266A–266B, 266–267, 270–271, 272A–272B, 272–273, 290A, 290–291, 292A, 292–293, 296A–296B, 296–297, 304A–304B, 304–305, 306A–306B, 306, 310A–310B, 310–311 |
| 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. | PE: 88, 109, 110–111, 217, 224–226, 247, 252–253, 265, 271, 272, 273, 289, 298, 299, 306, 307, 626–627 TE: 108B, 109, 110A–110B, 110–111, 217, 224A–224B, 224–226, 247, 252B, 252–253, 264, 264A–264B, 265, 271, 272, 272A–272B, 273, 288, 289, 298, 299, 306A–306B, 306, 626–627 |
| 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. | PE: 434–436 TE: 434A–434B, 434–436 |
| 9.A.1b Draw two-dimensional shapes. | PE: 419, 421, 423, 425, 426 TE: 414B, 418B, 419, 421, 422A–422B, 424B, 425 |
| 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. | PE: 418–421, 422–423, 424–426, 432–433, 434–437 TE: 418A–418B, 418–421, 422A–422B, 422–423, 424A–424B, 424–426, 432B, 432–433, 434A–434B, 434–437 |
| 9.B.1b Sort, classify and compare familiar shapes. | PE: 418–421, 422–423, 424–426, 427, 432–433, 434–437, 441, 461 TE: 418A–418B, 418–421, 422A–422B, 422–423, 424A–424B, 424–426, 427, 432A, 432–433, 434B, 434–437 |
| 9.B.1c Identify lines of symmetry in simple figures and construct symmetrical figures using various concrete materials. | PE: 448–449, 492 TE: 448A–448B, 448–449, 450A, 492 |
| C. Construct convincing arguments and proofs to solve problems. | |

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| 9.C.1 Draw logical conclusions and communicate reasoning about simple geometric figures and patterns using concrete materials, diagrams and contemporary technology. | PE: 418–421, 422–423, 424–426, 427, 432–433, 434–437, 443, 445 TE: 418A–418B, 418–421, 422A–422B, 422–423, 424A–424B, 424–426, 427, 432A–432B, 432–433, 434A–434B, 434–437, 444A |

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| 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. | PE: 39, 40, 148, 149, 159, 162–163, 164, 166, 167, 178–179, 180 TE: 38B, 39, 40, 148A–148B, 148, 149, 158B, 158, 159, 160, 162A–162B, 162–163, 164A–164B, 164–165, 166, 167, 174D, 176B, 178A–178B, 178–179, 180 |
| 10.A.1b Answer questions and make predictions based on given data. | PE: 148–149, 154–157, 158, 163, 165–167, 168–171, 184–186, 189 TE: 148A–148B, 148–149, 154B, 154–157, 158A, 158, 162A, 162, 163, 164A, 164B, 164, 165–167, 168A, 168–171, 184A–184B, 184–186, 188A–188B, 188, 189 |
| 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. | PE: 148, 163 TE: 38A, 146D, 148A–148B, 148, 163, 176B, 178B |
| 10.B.1b Collect, organize and describe data using pictures, tallies, tables, charts or bar graphs. | PE: 38–41, 147, 148, 149, 158, 159, 162–163, 164, 165, 166, 167 TE: 38A–38B, 38–41, 146D, 147, 148A–148B, 148, 149, 158A–158B, 158, 159, 160, 162A–162B, 162–163, 164A–164B, 164–165, 166, 167 |
| 10.B.1c Analyze data, draw conclusions and communicate the results. | PE: 148–149, 154, 158, 165–167, 168–171, 184–186 TE: 148A–148B, 148–149, 154B, 154, 158A–158B, 158, 162B, 162, 163, 164A, 164B, 165–167, 168A–168B, 168–171, 184A–184B, 184–186 |
| C. Determine, describe and apply the probabilities of events. | |
| 10.C.1a Describe the concept of probability in relationship to likelihood and chance. | PE: 175, 176–177, 178, 185, 186 TE: 176A–176B, 176–177, 178A–178B, 178, 185 |
| 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). | PE: 178–181, 182–183, 187 TE: 178A–178B, 178–181, 182B, 182–183, 184A, 187 |

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