A Correlation of

SCOTT FORESMAN • ADDISON WESLEY

Mathematics

—Problem of the Day—

to the

Michigan
Grade Level Content Expectations
Grades 3 & 4
Introduction

This document demonstrates the high degree of success students will achieve when using Scott Foresman – Addison Wesley Mathematics –Problem of the Day in meeting the objectives of the Michigan Grade Level Content Expectations. This correlation cites the Michigan Grade Level Content Expectations that are met by topics reviewed in Problem of the Day, which occurs at the beginning of each lesson of Scott Foresman – Addison Wesley Mathematics.

Scott Foresman – Addison Wesley Mathematics was carefully developed to reflect the specific needs of students and teachers at every grade level, while maintaining an overall primary goal: to have math make sense from every perspective. This program is based on scientific research that describes how children learn mathematics well and on classroom-based evidence that validates proven reliability.

● **Reaching All Learners**

Scott Foresman – Addison Wesley Mathematics addresses the needs of every student through structured instruction that makes concepts easier for students to grasp. Lessons provide step-by-step examples that show students how to think about and solve the problem. Built-in leveled practice in every lesson allows the teacher to customize instruction to match students’ abilities. Reaching All Learners, featured in the Teacher Edition, helps teachers meet the diverse needs of the classroom with fun and stimulating activities that are easy to incorporate directly into the lesson plan.

● **Test Prep**

Scott Foresman - Addison Wesley Mathematics builds understanding through connections to prior knowledge, math strands, other subjects and the real world. It provides practice for maximum results and offers assessment in a variety of ways. Besides carefully placed reviews at the end of each Section, an important Test Prep strand runs throughout the program. Writing exercises prepare students for open-ended and short-or extended-response questions on state and national tests. Spiral review in a test format help students keep their test-taking skills sharp.

● **Priority on problem solving:**

Problem-solving instruction is systematic and explicit. Reading connections help children with problem-solving skills and strategies for math. Reading for Math Success encourages students to use the reading skills and strategies they already know to solve math problems.

● **Instructional Support**

In the Teacher Edition, the Lesson Planner provides an easy, at-a-glance planning tool. It identifies objectives, math understandings, focus questions, vocabulary, and resources for each lesson in the chapter. Professional Development at the beginning of each chapter in the Teacher Edition includes a Skills Trace as well as Math Background and Teaching Tips for each section in the chapter.

Ancillaries help to reach all learners with practice, problem solving, hands-on math, language support, assessment and teacher support. Technology resources for both the student and the teacher provide a whole new dimension to math instruction by helping to create motivating and engaging lessons.
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Adding whole numbers  
Problem-Solving Skill: Choose an Operation |  **12.** Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers. |
| **Lesson 1-2**  
Subtraction facts  
Problem-Solving Skill: One-Step Problem | **12.** Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers. |
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| Adding Money; reading data from a table     | 5. Identify, select, and record appropriate units of measure for length, temperature, capacity, weight and time. Count money and make change. Estimate area and perimeter.  
7. Read and interpret data displayed in charts, plots, tables, and graphs and use data to support conclusions and predictions. Identify and use maximums and minimums to compare related data sets.  
12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers. |
<p>| Problem-Solving Skill: One-Step Problem     |                                          |
| <strong>Lesson 1-4</strong>                             |                                          |
| Ordinal numbers                            | 15. Use various representations to solve problems involving arrangements or combinations. |
| Problem-Solving Strategy: Act It Out or Use Objects |                                          |
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| Problem-Solving Strategy: Act It Out or Use Objects |                                          |</p>
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| Lesson 1-10 | Counting by threes and fours  
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| 11. Model, order, and compare whole numbers, fractions, or decimals by using objects or pictures.  
| 12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers. |
| Lesson 1-11 | Subtracting whole numbers  
| Problem-Solving Skill: Extra or Missing Information | 12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers. |
| Lesson 1-12 | Relating plane shapes to solids  
| Problem-Solving Skill: One-Step Problem | 3. Identify, describe, compare, sort, and classify polygons and non-polygons and two-dimensional shapes and three-dimensional objects. Create patterns/shapes inside a predetermined amount of space. |
| Lesson 1-13 | Number patterns, understanding numbers  
| Problem-Solving Skill: One-Step Problem | 1. Replicate, describe, extend, and create numerical and geometric patterns.  
<p>| 7. Read and interpret data displayed in charts, plots, tables, and graphs and use data to support conclusions and predictions. Identify and use maximums and minimums to compare related data sets. |</p>
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<td>7. Read and interpret data displayed in charts, plots, tables, and graphs and use data to support conclusions and predictions. Identify and use maximums and minimums to compare related data sets.</td>
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Problem-Solving Skill: Exact Answer or Estimate | 7. Read and interpret data displayed in charts, plots, tables, and graphs and use data to support conclusions and predictions. Identify and use maximums and minimums to compare related data sets.  
12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers. |
| Lesson 3-14  
Place value  
Problem-Solving Skill: One-Step Problems | 9. Use place value concepts to represent, read, write, compare, and order whole numbers and decimals with various representations. Develop understanding of common fractions. |
| Lesson 3-15  
Subtracting money  
Problem-Solving Skill: One-Step Problems | 5. Identify, select, and record appropriate units of measure for length, temperature, capacity, weight and time. Count money and make change. Estimate area and perimeter. |
| Lesson 4-1  
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Problem-Solving Strategy: Solve a Simpler Problem | 3. Identify, describe, compare, sort, and classify polygons and non-polygons and two-dimensional shapes and three-dimensional objects. Create patterns/shapes inside a predetermined amount of space. |
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| Problem-Solving Skill: Choose an Operation | 11. Model, order, and compare whole numbers, fractions, or decimals by using objects or pictures.  
12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers. |

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| Problem-Solving Skill: One-Step Problem | 14. List possible outcomes of a simple experiment and make predictions.  
3. Identify, describe, compare, sort, and classify polygons and non-polygons and two-dimensional shapes and three-dimensional objects. Create patterns/shapes inside a predetermined amount of space. |

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| **Lesson 4-6**  
Elapsed time  
Problem-Solving Strategy: Work Backward | 5. Identify, select, and record appropriate units of measure for length, temperature, capacity, weight and time. Count money and make change. Estimate area and perimeter. |
| **Lesson 4-7**  
Adding whole numbers  
Problem-Solving Strategy: Work Backward | 12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers. |
| **Lesson 4-8**  
Elapsed time  
Problem-Solving Skill: Extra or Missing Information | 5. Identify, select, and record appropriate units of measure for length, temperature, capacity, weight and time. Count money and make change. Estimate area and perimeter. |
| **Lesson 4-9**  
Rounding  
Problem-Solving Skill: One-Step Problem | (Related concept) 9. Use place value concepts to represent, read, write, compare, and order whole numbers and decimals with various representations. Develop understanding of common fractions. |
| **Lesson 4-10**  
Appropriate use of inches, feet, and yards  
Problem-Solving Skill: One-Step Problem | 5. Identify, select, and record appropriate units of measure for length, temperature, capacity, weight and time. Count money and make change. Estimate area and perimeter. |
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<td>7. Read and interpret data displayed in charts, plots, tables, and graphs and use data to support conclusions and predictions. Identify and use maximums and minimums to compare related data sets.</td>
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<td>Lesson 4-14</td>
<td>6. Construct and interpret graphs where symbols or scales represent multiple units. Identify what data are needed to answer a particular question.</td>
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<td>12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers.</td>
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<td>7. Read and interpret data displayed in charts, plots, tables, and graphs and use data to support conclusions and predictions. Identify and use maximums and minimums to compare related data sets.</td>
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<td>9. Use place value concepts to represent, read, write, compare, and order whole numbers and decimals with various representations. Develop understanding of common fractions.</td>
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<td>Perimeter; column addition</td>
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**Counting by sixes**  
**Problem-Solving Strategy: Make a Table** |  
7. Read and interpret data displayed in charts, plots, tables, and graphs and use data to support conclusions and predictions. Identify and use maximums and minimums to compare related data sets. |
| **Lesson 6-6**  
**Subtracting whole numbers**  
**Problem-Solving Skill: Choose an Operation** |  
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| **Lesson 6-7**  
**Time to the quarter hour**  
**Problem-Solving Skill: One-Step Problem** |  
5. Identify, select, and record appropriate units of measure for length, temperature, capacity, weight and time. Count money and make change. Estimate area and perimeter. |
| **Lesson 6-8**  
**Multiplication facts; adding whole numbers**  
**Problem-Solving Skill: Multiple-Step Problem** |  
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| **Lesson 6-9**  
Making and Reading pictographs  
Problem-Solving Strategy: Make a Graph | 6. Construct and interpret graphs where symbols or scales represent multiple units. Identify what data are needed to answer a particular question.  
7. Read and interpret data displayed in charts, plots, tables, and graphs and use data to support conclusions and predictions. Identify and use maximums and minimums to compare related data sets. |
| **Lesson 6-10**  
Making and Reading Bar Graphs  
Problem-Solving Strategy: Make a Graph | 6. Construct and interpret graphs where symbols or scales represent multiple units. Identify what data are needed to answer a particular question. |
| **Lesson 6-11**  
Multiplication Facts  
Problem-Solving Strategy: Write a Number Sentence | 12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers.  
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| **Lesson 6-12**  
Graphing Ordered Pairs; rectangles  
Problem-Solving Skill: One-Step Problem | 3. Identify, describe, compare, sort, and classify polygons and non-polygons and two-dimensional shapes and three-dimensional objects. Create patterns/shapes inside a predetermined amount of space.  
4. Describe location and orientation of objects. |
| Lesson 7-1 | Multiplication facts; comparing numbers | Lesson 7-2 | Geometric patterns |
| Problem-Solving Skill: Multiple-Step | Problem-Solving Strategy: Look for a Pattern |
| Lesson 7-3 | Place-Value patterns | Problem-Solving Strategy: Look for a Pattern |
| Lesson 7-4 | Division Facts | Problem-Solving Skill: Choose an Operation |
| Lesson 7-5 | Probability | Problem-Solving Skill: One-Step Problem |

### Michigan Grade Level Content Expectations

11. Model, order, and compare whole numbers, fractions, or decimals by using objects or pictures.
12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers.
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14. List possible outcomes of a simple experiment and make predictions.
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<td>3. Identify, describe, compare, sort, and classify polygons and non-polygons and two-dimensional shapes and three-dimensional objects. Create patterns/shapes inside a predetermined amount of space.</td>
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<td>Symmetry; subtraction facts</td>
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<td>Solid figures</td>
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Dividing with remainders  
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13. Write, solve, and explain simple mathematical statements and one- and multi-step real-world problems. |
| **Lesson 9-6**  
Equal parts of a whole  
Problem-Solving Skill: One-Step Problem | 3. Identify, describe, compare, sort, and classify polygons and non-polygons and two-dimensional shapes and three-dimensional objects. Create patterns/shapes inside a predetermined amount of space.  
10. Show fractions and decimals with various representations. |
| **Lesson 9-7**  
Reading pictographs; multiplying, adding, and subtracting whole numbers  
Problem-Solving Skill: Multiple-Step Problem | 7. Read and interpret data displayed in charts, plots, tables, and graphs and use data to support conclusions and predictions. Identify and use maximums and minimums to compare related data sets.  
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Problem-Solving Skill: Multiple-Step Problem | 15. Use various representations to solve problems involving arrangements or combinations. |
| **Lesson 9-13**  
Problem-Solving Strategy: Use Logical Reasoning | 5. Identify, select, and record appropriate units of measure for length, temperature, capacity, weight and time. Count money and make change. Estimate area and perimeter. |
| **Lesson 9-14**  
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Problem-Solving Strategy: Use Objects | 5. Identify, select, and record appropriate units of measure for length, temperature, capacity, weight and time. Count money and make change. Estimate area and perimeter. |
| **Lesson 9-15**  
Converting lengths  
Problem-Solving Skill: Choose an Operation | 5. Identify, select, and record appropriate units of measure for length, temperature, capacity, weight and time. Count money and make change. Estimate area and perimeter.  
12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers. |
| **Lesson 9-16**  
Fractions and sets  
Problem-Solving Skill: One-Step Problem | 10. Show fractions and decimals with various representations. |
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12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers.

6. Construct and interpret graphs where symbols or scales represent multiple units. Identify what data are needed to answer a particular question.

7. Read and interpret data displayed in charts, plots, tables, and graphs and use data to support conclusions and predictions. Identify and use maximums and minimums to compare related data sets.

12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers.

13. Write, solve, and explain simple mathematical statements and one- and multi-step real-world problems.
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**Lesson 12-3**  
Dividing with remainders  
Problem-Solving Skill: Interpreting Remainders  

**12.** Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers.

**Lesson 12-4**  
Identifying geometric shapes  
Problem-Solving Skill: One-Step Problem  

**3.** Identify, describe, compare, sort, and classify polygons and non-polygons and two-dimensional shapes and three-dimensional objects. Create patterns/shapes inside a predetermined amount of space.

**Lesson 12-5**  
Customary units of capacity  
Problem-Solving Skill: Multiple-Step Problem  

**5.** Identify, select, and record appropriate units of measure for length, temperature, capacity, weight and time. Count money and make change. Estimate area and perimeter.

**Lesson 12-6**  
Triangles  
Problem-Solving Strategy: Look for a Pattern  

**3.** Identify, describe, compare, sort, and classify polygons and non-polygons and two-dimensional shapes and three-dimensional objects. Create patterns/shapes inside a predetermined amount of space.

**Lesson 12-7**  
Adding whole numbers  
Problem-Solving Strategy: Solve a Simpler Problem  

**12.** Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers.
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Adding whole numbers  
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| **Lesson 12-9**  
Fair and unfair  
Problem-Solving Skill: One-Step Problem | 14. List possible outcomes of a simple experiment and make predictions. |
| **Lesson 12-10**  
Multiplying by three-digit numbers  
Problem-Solving Skill: Multiple-Step Problem | 12. Demonstrate fluency in addition and subtraction with whole numbers in a variety of ways. Develop understanding of multiplication and division of whole numbers. Estimate sums and differences of whole numbers in a variety of ways. Show understanding of the commutative, associative, and distributive properties with whole numbers. |
| **Lesson 12-11**  
Temperature  
Problem-Solving Strategy: Work Backward | 5. Identify, select, and record appropriate units of measure for length, temperature, capacity, weight and time. Count money and make change. Estimate area and perimeter. |
### Grade Four

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| **Lesson 4-7**  
Adding money  
Problem-Solving Strategy: Work Backward | 12. Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies. |
| **Lesson 4-8**  
Multiplication  
Problem-Solving Skill: Choose an Operation | 12. Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies. |
| **Lesson 4-9**  
Place-value patterns  
Problem-Solving Skill: One-Step Problem | 1. Represent, analyze, extend, create, and make generalizations of numerical and geometric patterns and numerical relationships. |
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12. Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies.

3. Describe, classify, compare, and model two-dimensional shapes and three-dimensional objects. Identify, describe, and model intersecting, parallel, and perpendicular lines, rays, points, line segments, and planes. Identify and model similarity and congruence.

9. Read and write numbers using standard and expanded notation. Represent addition, subtraction, multiplication, and division situations and properties. Identify fractional parts of a collection of objects and regions.

11. Compare whole numbers, fractions, and decimals. Identify and represent factors and multiples of whole numbers.

6. Compare different representations of the same data and identify and use appropriate ways to display the data.
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<td>5. Estimate and measure perimeters and areas of regular and irregular polygons. Estimate areas using grids. Make simple unit conversions within a measurement system. Solve and verify solutions to multi-step problems involving measurement. 9. Read and write numbers using standard and expanded notation. Represent addition, subtraction, multiplication, and division situations and properties. Identify fractional parts of a collection of objects and regions.</td>
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<td>Lesson 7-9 Reading bar graphs; adding three numbers Problem-Solving Strategy: Try, Check, and Revise</td>
<td>7. Raise and answer questions about the source, collection, organization, presentation of data and its attributes, and conclusions drawn from data, and check for biases. 9. Read and write numbers using standard and expanded notation. Represent addition, subtraction, multiplication, and division situations and properties. Identify fractional parts of a collection of objects and regions.</td>
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| Adding whole numbers; multiplication facts | **9.** Read and write numbers using standard and expanded notation. Represent addition, subtraction, multiplication, and division situations and properties. Identify fractional parts of a collection of objects and regions.  
**12.** Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies. |
| Problem-Solving Strategy: Try, Check, and Revise | |

| **Lesson 7-11** | **12.** Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies. |
| Dividing with remainders | |
| Problem-Solving Skill: Interpreting Remainders | |

| **Lesson 7-12** | |
| Subtracting whole numbers | **9.** Read and write numbers using standard and expanded notation. Represent addition, subtraction, multiplication, and division situations and properties. Identify fractional parts of a collection of objects and regions. |
| Problem-Solving Skill: One-Step Problem | |

| **Lesson 7-13** | **11.** Compare whole numbers, fractions, and decimals. Identify and represent factors and multiples of whole numbers.  
**12.** Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies. |
<p>| Finding averages; comparing whole numbers | |
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| Lesson 8-4 Finding patterns | 1. Represent, analyze, extend, create, and make generalizations of numerical and geometric patterns and numerical relationships.  
12. Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies. |
<p>| Problem-Solving Strategy: Solve a Simpler Problem |  |
| Lesson 8-5 Squares | 3. Describe, classify, compare, and model two-dimensional shapes and three-dimensional objects. Identify, describe, and model intersecting, parallel, and perpendicular lines, rays, points, line segments, and planes. Identify and model similarity and congruence. |
| Problem-Solving Strategy: Solve a Simpler Problem |  |
| Lesson 8-6 Dividing whole numbers | 12. Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies. |
| Problem-Solving Skill: Interpreting Remainders |  |
| Lesson 8-7 Identifying shapes | 3. Describe, classify, compare, and model two-dimensional shapes and three-dimensional objects. Identify, describe, and model intersecting, parallel, and perpendicular lines, rays, points, line segments, and planes. Identify and model similarity and congruence. |
| Problem-Solving Step: One-Step Problem |  |</p>
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**Lesson 8-8**  
Angles; subtraction facts  
Problem-Solving Skill: Multiple-Step Problem

| 3. Describe, classify, compare, and model two-dimensional shapes and three-dimensional objects. Identify, describe, and model intersecting, parallel, and perpendicular lines, rays, points, line segments, and planes. Identify and model similarity and congruence.  
9. Read and write numbers using standard and expanded notation. Represent addition, subtraction, multiplication, and division situations and properties. Identify fractional parts of a collection of objects and regions. |

**Lesson 8-9**  
Time  
Problem-Solving Strategy: Work Backward

| Reviews Grade 3: 5. Identify, select, and record appropriate units of measure for length, temperature, capacity, weight and time. Count money and make change. Estimate area and perimeter. |

**Lesson 8-10**  
Adding Whole Numbers  
Problem-Solving Strategy: Work Backward

| 9. Read and write numbers using standard and expanded notation. Represent addition, subtraction, multiplication, and division situations and properties. Identify fractional parts of a collection of objects and regions. |

**Lesson 8-11**  
Dividing whole numbers  
Problem-Solving Skill: Translating Words into Expressions

<p>| 12. Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies. |</p>
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| Lesson 9-13       | 7. Raise and answer questions about the source, collection, organization, presentation of data and its attributes, and conclusions drawn from data, and check for biases.  
| Misleading graphs  | 8. Formulate, communicate, and evaluate arguments and conclusions based on data.                                        |
| Problem-Solving Skill: One-Step Problem |                                                                                                                  |
| Lesson 9-14       | 11. Compare whole numbers, fractions, and decimals. Identify and represent factors and multiples of whole numbers.  
<p>| Averages; comparing whole numbers | 12. Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies. |
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<p>| <strong>5.</strong> Estimate and measure perimeters and areas of regular and irregular polygons. Estimate areas using grids. Make simple unit conversions within a measurement system. Solve and verify solutions to multi-step problems involving measurement. | <strong>1.</strong> Represent, analyze, extend, create, and make generalizations of numerical and geometric patterns and numerical relationships. |
| <strong>9.</strong> Read and write numbers using standard and expanded notation. Represent addition, subtraction, multiplication, and division situations and properties. Identify fractional parts of a collection of objects and regions. | <strong>12.</strong> Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies. |
| <strong>11.</strong> Compare whole numbers, fractions, and decimals. Identify and represent factors and multiples of whole numbers. | <strong>13.</strong> Determine if there is sufficient, missing, or extraneous information in problem solving situations and solve when possible. <strong>14.</strong> Analyze probability experiments and simulations. |</p>
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| Lesson 11-13 | Problem-Solving Strategy: Draw a Picture  
9. Read and write numbers using standard and expanded notation. Represent addition, subtraction, multiplication, and division situations and properties. Identify fractional parts of a collection of objects and regions. |
| Lesson 11-14 | Relating solids and plane figures  
Problem-Solving Strategy: Act it Out  
3. Describe, classify, compare, and model two-dimensional shapes and three-dimensional objects. Identify, describe, and model intersecting, parallel, and perpendicular lines, rays, points, line segments, and planes. Identify and model similarity and congruence. |
| Lesson 11-15 | Converting meters to centimeters  
Multiplying by multiples of 100  
Problem-Solving Skill: Choose an Operation  
5. Estimate and measure perimeters and areas of regular and irregular polygons. Estimate areas using grids. Make simple unit conversions within a measurement system. Solve and verify solutions to multi-step problems involving measurement.  
12. Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies. |
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<tr>
<td>Problem of the Day Topics Reviewed</td>
<td>Michigan Grade Level Content Expectations</td>
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<tr>
<td><strong>Lesson 12-5</strong>&lt;br&gt;Converting feet to inches; adding and multiplying whole numbers&lt;br&gt;Problem-Solving Skill: Choose an Operation</td>
<td><strong>5.</strong> Estimate and measure perimeters and areas of regular and irregular polygons. Estimate areas using grids. Make simple unit conversions within a measurement system. Solve and verify solutions to multi-step problems involving measurement. <strong>9.</strong> Read and write numbers using standard and expanded notation. Represent addition, subtraction, multiplication, and division situations and properties. Identify fractional parts of a collection of objects and regions. <strong>12.</strong> Demonstrate fluency in multiplication and division with whole numbers in a variety of ways. Develop understanding of addition and subtraction of fractions and decimals. Estimate products and quotients of whole numbers using a variety of strategies.</td>
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<tr>
<td><strong>Lesson 12-6</strong>&lt;br&gt;Reading equations and graphs&lt;br&gt;Problem-Solving Skill: One-Step Problem</td>
<td>Reviews Grade 3: <strong>7.</strong> Read and interpret data displayed in charts, plots, tables, and graphs and use data to support conclusions and predictions. Identify and use maximums and minimums to compare related data sets. Previews Grade 5: <strong>7.</strong> Raise and answer questions about the source, collection, organization, presentation of data and its attributes, and conclusions drawn from data, and check for biases.</td>
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<td>Scott Foresman – Addison Wesley Mathematics</td>
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<tr>
<td><strong>Lesson 12-7</strong> Customary units of capacity</td>
<td>5. Estimate and measure perimeters and areas of regular and irregular polygons. Estimate areas using grids. Make simple unit conversions within a measurement system. Solve and verify solutions to multi-step problems involving measurement.</td>
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<tr>
<td>Problem-Solving Skill: Multiple-Step Problem</td>
<td>9. Read and write numbers using standard and expanded notation. Represent addition, subtraction, multiplication, and division situations and properties. Identify fractional parts of a collection of objects and regions.</td>
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<td><strong>Lesson 12-8</strong> Solid figures</td>
<td>1. Represent, analyze, extend, create, and make generalizations of numerical and geometric patterns and numerical relationships.</td>
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<td>Problem-Solving Strategy: Look for a Pattern</td>
<td>3. Describe, classify, compare, and model two-dimensional shapes and three-dimensional objects. Identify, describe, and model intersecting, parallel, and perpendicular lines, rays, points, line segments, and planes. Identify and model similarity and congruence.</td>
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<tr>
<td><strong>Lesson 12-9</strong> Predicting</td>
<td>2. Compare situations with constant or varying rates of change and make predictions. Construct and order a table/chart to solve problems and use symbols to represent descriptions of patterns/relationships.</td>
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<td>Problem-Solving Strategy: Make a Table</td>
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<td><strong>Lesson 12-10</strong> Customary units of length</td>
<td>5. Estimate and measure perimeters and areas of regular and irregular polygons. Estimate areas using grids. Make simple unit conversions within a measurement system. Solve and verify solutions to multi-step problems involving measurement.</td>
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<td>Problem-Solving Skill: Multiple-Step Problem</td>
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