# CORRELATION OF COLORADO MODEL CONTENT STANDARDS TO MOVING WITH MATH® INTERMEDIATE/MIDDLE (IM) GRADE 5 

|  |  | IM1 <br> Number, Reasoning \& Data Student Book Skill Builders (SB) | IM2 <br> Fractions, Decimals <br> \& Percent Student Book Skill Builders (SB) | IM3 <br> Geometry, <br> Measurement \& Graphing Student Book Skill Builders (SB) |
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|  | STANDARD 1 |  |  |  |
| 1. | Students develop number sense and use numbers and number relationships in problem-solving situations and communicate the reasoning used in solving these problems. |  |  |  |
| 1.1 | Demonstrate meanings for whole numbers, and commonly-used fractions and decimals (for example, $1 / 3,3 / 4,0.5,0.75$ ), and representing equivalent forms of the same number through the use of physical models, drawings, calculators, and computers. | $\begin{aligned} & 2 \\ & \text { SB: 1-1 } \end{aligned}$ | 4, 7, 42 <br> SB: 11-1, 11-3, <br> 12-1, 21-1 |  |
| 1.1a | Locate commonly used positive rational numbers including terminating decimals through hundredths, fractions (halves, thirds, fourths, eighths, and tenths), mixed numbers, and percents on a number line. |  | $\begin{aligned} & 5,43 \\ & \text { SB: 11-4, 21-2, } \\ & 23-2 \end{aligned}$ |  |
| 1.1b | Using concrete materials, demonstrate the equivalence of commonly-used fractions, terminating decimals, and percents (for example, $7 / 10=0.7=$ 70\%). |  | $\begin{aligned} & \text { 42, 67-69 } \\ & \text { SB: } 25-4,29-2 \end{aligned}$ |  |
| 1.1c | Demonstrate the meaning of square numbers using pictorial or concrete materials. | $\begin{aligned} & 16 \\ & \text { SB: } 4-4 \end{aligned}$ | SB: 4-1 |  |
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| 1.2 | Read and write whole numbers and know place-value concepts and numeration through their relationships to counting, ordering, and grouping. | $2,4,6$ <br> SB: 1-1, 1-2, 1-3 |  |  |
| 1.2a | Read, write, and order positive rational numbers, including commonly-used fractions and terminating decimals through hundredths. | $6,7$ <br> SB: 2-1, 2-3 | $\begin{aligned} & 10,11,46,49-51 \\ & \text { SB: } 13-2,22-1, \\ & 24-2 \end{aligned}$ |  |
| 1.2b | Compare commonly-used proper fractions and terminating decimals. |  | $\begin{aligned} & 10,11,47 \\ & \text { SB: } 13-2,21-3 \end{aligned}$ |  |
| 1.3 | Use numbers to count, to measure, to label, and to indicate location. |  |  |  |
| 1.3a | Identify factors, multiples, and prime/composite numbers. | $\begin{aligned} & 13-15,18 \\ & \text { SB: 4-1, 4-2, 4-5, } \\ & 4-6 \end{aligned}$ | $8,18,48$ <br> SB: 4-2, 4-3, 12-2 |  |
| 1.3b | Recognize equivalent representations for the same number and generate them by decomposing and composing numbers (for example, 36 can be represented as $30+6,20+16,9 \times 4$, $40-$, three dozen and/or the square of 6 ). | $\begin{aligned} & \text { 3 } \\ & \text { SB: } 1-5 \end{aligned}$ |  |  |
| 1.3c | Describe numbers by their characteristics (for example even, odd, prime, square). | $\begin{aligned} & 14,15 \\ & \text { SB: } 4-1,4-2 \end{aligned}$ |  |  |
| 1.4 | Use the relationships among fractions, decimals, and percents, include the concepts of ratio and proportion in problem-solving situations. |  | $\begin{aligned} & 47 \\ & \text { SB: } 25-3,29-3 \end{aligned}$ | $\begin{aligned} & 56-61 \\ & \text { SB: 29-1, 30-1 } \end{aligned}$ |
| 1.4a | Demonstrate the equivalent relationships among commonly used fractions, decimals, and percents using pictorial or concrete materials. |  | $\begin{aligned} & \text { 42, 44, } 67 \\ & \text { SB: } 29-2 \end{aligned}$ | SB: 29-1 |
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| 1.5 | Develop, test, and explain conjectures about properties of integers and rational numbers. | $\begin{aligned} & \text { 63-66 } \\ & \text { SB: } 59-1 \text { to } 59-4 \end{aligned}$ |  |  |
| 1.5a | Develop, test, and explain conjectures about properties of whole numbers and commonly used fractions and decimals. | $\begin{aligned} & 19-21 \\ & \text { SB: } 5-1,5-2,5-3, \\ & 5-5 \end{aligned}$ |  |  |
| 1.5b | Use number properties (commutative, associative, identity) to evaluate numeric expressions and solve equations. | $\begin{aligned} & 19-21 \\ & \text { SB: } 5-1,5-2,5-3, \\ & 5-5 \end{aligned}$ | SB: 5-1 |  |
| 1.6 | Use number sense to estimate and justify the reasonableness of solutions to problems involving integers, rational numbers, and common irrational numbers. | $\begin{aligned} & 27-30,51-54 \\ & \text { SB: } 45-8,49-1,49- \\ & 2,50-1 \text { to } 50-3 \end{aligned}$ | $\begin{aligned} & 24-27,56,65,66 \\ & \text { SB: } 18-3,18-4,45- \\ & 3,45-5,45-6,45- \\ & 9 \text { to } 45-11,49-1 \text {, } \\ & 50-1 \end{aligned}$ | SB: 49-1, 50-1 |
| 1.6a | Use number sense to estimate sums and differences of fractions and decimals using benchmarks (for example, $5 / 6+7 / 8$ must be equal to an amount less than 2 , since each fraction is less than 1 ). |  | 25, 65 |  |
| 1.6b | Use appropriate techniques to estimate, determine, and then justify the reasonableness of solutions to problems involving whole numbers. | 27-30, 51-54 |  |  |
|  | STANDARD 2 |  |  |  |
| 2. | Students use algebraic methods to explore, model, and describe patterns and functions involving numbers, shapes, data, and graphs in problemsolving situations and communicate the reasoning used in solving these problems. |  |  |  |
| 2.1 | Represent, describe, and analyze patterns and relationships using tables, graphs, verbal rules, and standard algebraic notation. | $\begin{aligned} & 38,73-76 \\ & \text { SB: } 44-1 \text { to } 44-3 \text {, } \\ & 44-6 \end{aligned}$ | $\begin{aligned} & \text { 63 } \\ & \text { SB: 44-1 } \end{aligned}$ | 21, 22, 66-76 <br> SB: 44-3 to 44-6 |


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| 2.1a | Represent, describe, and analyze geometric and numeric patterns (whole numbers). | $\begin{aligned} & 73-75 \\ & \text { SB: } 44-2,44-3, \\ & 44-6 \end{aligned}$ |  | $21,22$ <br> SB: 44-1 to 44-6 |
| 2.1b | Recognize that a variable is used to represent an unknown quantity. | $\begin{aligned} & 70 \\ & \text { SB: } 56-4 \end{aligned}$ | SB: 56-1 |  |
| 2.1 c | Identify such properties as commutativity, associativity, and distributivity and use them to compute with whole numbers. | $\begin{aligned} & 19-21 \\ & \text { SB: 5-1, 5-2, } 5-3 \end{aligned}$ |  |  |
| 2.2 | Describe patterns using variables, expressions, equations and inequalities in problem-solving situations. | $\begin{aligned} & 73-75 \\ & \text { SB: 44-2, 44-3 } \end{aligned}$ |  | SB: 44-4 to 44-6 |
| 2.2a | Solve problems by representing and analyzing patterns using words, tables, and graphs. | $\begin{aligned} & 73-75 \\ & \text { SB: } 44-2,44-3, \\ & 44-4 \end{aligned}$ | SB: 44-1 | 21, 22 <br> SB: 44-4 to 44-6 |
| 2.3 | Analyze functional relationships to explain how a change in one quantity results in a change in another (for example, how the area of a circle changes as the radius increases, or how a person's height changes over time). | $\begin{aligned} & 76 \\ & \text { SB: 44-5 } \end{aligned}$ |  | $74$ <br> SB: 44-5 |
| 2.3a | Describe how a change in one quantity results in a change in another quantity. | 76 |  | 74 |
| 2.4 | Distinguish between linear and nonlinear functions through informal investigations. |  |  |  |
| 2.4a | Match a description of a situation with its continuous graph. |  |  |  |
| 2.5 | Solve simple linear equations in problem-solving situations using a variety of methods (informal, formal, graphical) and a variety of tools (physical materials, calculators, computers). | $\begin{aligned} & 71,72 \\ & \text { SB: } 56-2,56-3 \end{aligned}$ |  | $\begin{aligned} & 46-48 \\ & \text { SB: } 38-3,38-6,38- \\ & 7,38-10,38-12, \\ & 56-2 \end{aligned}$ |


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| 2.5a | Use tables, charts, concrete objects, or pictures to solve problems involving linear relationships with whole numbers. | $\begin{aligned} & 76,78 \\ & \text { SB: } 44-4,44-5 \end{aligned}$ |  | SB: 44-5 |
|  | STANDARD 3 |  |  |  |
| 3. | Students use data collection and analysis, statistics, and probability in problem-solving situations and communicate the reasoning used in solving these problems. |  |  |  |
| 3.1 | Read and construct displays of data using appropriate techniques (for example, line graphs, circle graphs, scatter plots, box plots, stem-and-leaf plots) and appropriate technology. |  | SB: 48-1 to 48-3 | $\begin{aligned} & 66-76 \\ & \text { SB: } 47-1 \text { to } 47-6 \text {, } \\ & 48-1 \text { to } 48-5 \end{aligned}$ |
| 3.1 a | Differentiate between categorical and numerical data. |  |  |  |
| 3.1b | Organize, construct, and interpret displays of data including tables, charts, pictographs, line plots, bar graphs, and line graphs. | SB: 45-13 | $\begin{aligned} & 37,38 \\ & \text { SB: } 48-1,48-2 \text {, } \\ & 48-3 \end{aligned}$ | $\begin{aligned} & 66-76 \\ & \text { SB: } 47-1 \text { to } 47-6, \\ & 48-1 \text { to } 48-5 \end{aligned}$ |
| 3.1 c | Read, interpret, and draw conclusions from various displays of data. |  | 37, 38 | $66-76$ <br> SB: 47-1 to 47-6, 48-1 to 48-5 |
| 3.1d | From a given scenario, choose the correct graph from possible graph representations. |  |  | SB: 48-4 |
| 3.2 | Display and use measures of central tendency, such as mean, median, and mode, and measures of variability, such as range and quartiles. | $\begin{aligned} & 59-62 \\ & \text { SB: 46-1 to 46-5 } \end{aligned}$ | SB: 46-1 | SB: 46-1 |
| 3.2a | Distinguish between the median and mode of a data set. | 62 |  | $\begin{aligned} & \text { 65 } \\ & \text { SB: } 46-1 \end{aligned}$ |
| 3.2b | Determine the range of a set of data. | $\begin{aligned} & \text { 60, 62 } \\ & \text { SB: } 46-4 \end{aligned}$ |  | 65 |
| 3.3 | Evaluate arguments that are based on statistical claims. |  |  | 69 |


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| 3.3a | Analyze data and draw conclusions based on data displays such as tables, charts, line graphs, bar graphs, pictographs, and line plots. |  | $\begin{aligned} & \text { SB: } 48-1,48-2, \\ & 48-3 \end{aligned}$ | $\begin{aligned} & 68-76 \\ & \text { SB: } 47-1,47-3, \\ & 47-6,48-3 \end{aligned}$ |
| 3.4 | Formulate hypotheses, drawing conclusions, and making convincing arguments based on data analysis. | $\begin{aligned} & 61 \\ & \text { SB: 46-5 } \end{aligned}$ |  | 68-76 <br> SB: 47-1 to 47-6, 48-1 to 48-5 |
| 3.4a | Describe how data collection methods affect the nature of the data set. |  |  | $\begin{aligned} & 67 \\ & \text { SB: } 47-4 \end{aligned}$ |
| 3.4b | Make convincing arguments based on data analysis. |  |  | 68 |
| 3.5 | Determine probabilities through experiments or simulations. |  | $\begin{aligned} & 73-75,78 \\ & \text { SB: } 57-1 \text { to } 57-5 \end{aligned}$ | SB: 57-1 |
| 3.5a | Describe events such as likely or unlikely and explain the degree of likelihood using words, such as certain, equally likely, and impossible. |  | 73 (T.G.) |  |
| 3.5b | Use zero to represent the probability of an impossible event and one to represent the probability of a certain event. |  | 73 |  |
| 3.5c | Use common fractions to represent the probability of events that are neither certain nor impossible. |  | $\begin{aligned} & 73,74,78 \\ & \text { SB: } 57-1,57-2 \end{aligned}$ | SB: 57-1 |
| 3.6 | Make predictions and compare results using both experimental and theoretical probability drawn from realworld problems. |  | $\begin{aligned} & 75,78 \\ & \text { SB: } 57-2,57-3 \end{aligned}$ | SB: 57-1 |
| 3.6a | Using one chance device, such as a number cube or a spinner, design a fair game and an unfair game, and explain why they are fair and unfair. |  |  |  |
| 3.6b | Make predictions based on data obtained from simple probability experiments. |  | $\begin{aligned} & 75,78 \\ & \text { SB: } 57-3 \end{aligned}$ |  |
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| 3.7 | Solve problems using strategies for finding all possible combinations and/or arrangements. |  | $\begin{aligned} & 76,77 \\ & \text { SB: } 58-1,58-2, \\ & 58-3 \end{aligned}$ | SB: 58-1 |
|  | STANDARD 4 |  |  |  |
| 4. | Students use geometric concepts, properties, and relationships in problem-solving situations and communicate the reasoning used in solving these problems. |  |  |  |
| 4.1 | Construct two- and three-dimensional models using a variety of materials and tools. | 41 |  | 7, 12 <br> SB: 32-4, 34-7, <br> 34-8, 39-1 |
| 4.1 a | Represent a three-dimensional shape in two dimensions (for example, recognize a three-dimensional figure from its net). |  |  | $\begin{aligned} & 12,54,55 \\ & \text { SB: } 34-7,39-1 \end{aligned}$ |
| 4.2 | Describe, analyze, and reason informally about the properties (for example, parallelism, perpendicularity, congruence) of two- and three dimensional figures. |  |  | $\begin{aligned} & 3,5,17,18 \\ & \text { SB: } 32-1 \text { to } 32-5 \text {, } \\ & 33-1,34-1 \text { to } 34- \\ & 6 \end{aligned}$ |
| 4.2a | Identify, compare, and analyze the attributes of two- and threedimensional shapes and develop vocabulary to describe the attributes (for example, acute, obtuse, right angle, parallel lines, perpendicular lines, intersecting lines, and line segments). |  |  | $2-12,23,24$ <br> SB: 32-1 to 32-5, <br> 33-1, 34-1 to 34- <br> 6, 34-10 |
| 4.2b | Make and test conjectures about geometric relationships and develop logical arguments to justify conclusions. |  |  | $\begin{aligned} & 10,13,14,25 \\ & \text { SB: } 32-5,34-1 \end{aligned}$ |
| 4.4 | Solve problems using coordinate geometry. | $\begin{aligned} & 77 \\ & \text { SB: 43-1, 44-4 } \end{aligned}$ |  | $\begin{aligned} & \text { 15, } 16 \\ & \text { SB: 43-1 } \end{aligned}$ |
| 4.4a | Given a coordinate graph, read coordinate pairs in quadrant one. | $\begin{aligned} & 77 \\ & \text { SB: 43-1 } \end{aligned}$ | SB: 43-1 | $\begin{aligned} & 15 \\ & \text { SB: 43-1 } \end{aligned}$ |
| 4.4b | Choose the coordinate graph, which represents a given data set. |  |  |  |


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| 4.4c | Use maps and grids to locate points, create paths and measure distances within a coordinate system. | $\begin{aligned} & 78 \\ & \text { SB: } 44-4 \end{aligned}$ |  | 16 |
| 4.5 | Solve problems involving perimeter and area in two dimensions, and involving surface area and volume in three dimensions. |  |  | $\begin{aligned} & 40-54 \\ & \text { SB: } 38-1 \text { to } 38-13, \\ & 39-1 \text { to } 39-5 \end{aligned}$ |
| 4.5a | Solve problems involving the perimeter of polygons. |  |  | $\begin{aligned} & 41,42 \\ & \text { SB: } 38-1,38-2, \\ & 38-13 \end{aligned}$ |
| 4.5b | solve problems involving the area of rectangles and squares. |  |  | $\begin{aligned} & 43,44,45 \\ & \text { SB: } 38-6,38-8, \\ & 38-9 \end{aligned}$ |
| 4.6 | Transform geometric figures using reflections, translations, and rotations to explore congruence. |  |  | $\begin{aligned} & 20 \\ & \text { SB: } 60-4,60-5 \end{aligned}$ |
| 4.6a | Predict and describe the results of flipping, sliding, or turning a twodimensional shape. |  |  | $\begin{aligned} & 20 \\ & \text { SB: 60-4 } \end{aligned}$ |
| 4.6b | Show lines of symmetry for geometrical shapes. |  |  | $\begin{aligned} & 17 \\ & \text { SB: 60-1 } \end{aligned}$ |
|  | STANDARD 5 |  |  |  |
| 5. | Students use a variety of tools and techniques to measure, apply the results in problem-solving situations, and communicate the reasoning used in solving these problems. |  |  |  |
| 5.1 | Estimate, use, and describe measures of distance, perimeter, area, volume, capacity, weight, mass, and angle comparison. |  |  | $\begin{aligned} & 30-38 \\ & \text { SB: } 36-3,36-6,37- \\ & 2,38-1 \end{aligned}$ |
| 5.1 a | Determine the appropriate unit of measure (metric and US customary) when estimating distance, capacity, and weight. |  |  | $\begin{aligned} & 30,35,36 \\ & \text { SB: } 45-1 \end{aligned}$ |
| 5.1b | Estimate the length of common objects. |  |  | 32 |


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| 5.1 c | Estimate the perimeter of polygons. |  |  | $\begin{aligned} & 40 \\ & \text { SB: } 38-1,38-2 \end{aligned}$ |
| 5.1d | Estimate the measures of angles (for example, 90 o, less than $90^{\circ}$, more than $90^{\circ}$ ). |  |  | 6 <br> SB: 37-3 |
| 5.1 e | Describe angles as acute, obtuse, and right. |  |  | $\begin{aligned} & 5 \\ & \text { SB: } 33-1 \end{aligned}$ |
| 5.3 | Read and interpret various scales including those based on number lines, graphs, and maps. | 64, 65 |  | $\begin{aligned} & 60,61,68 \\ & \text { SB: } 52-4,52-5 \end{aligned}$ |
| 5.3a | Read and interpret scales on number lines, graphs, and maps. | 64, 65 |  | 60, 61 |
| 5.3b | Select the appropriate scale for a given problem (for example, using the appropriate scale when setting up a graph). |  |  | 69 (T.G.) |
| 5.4 | Develop and use formulas and procedures to solve problems involving measurement. |  |  | $\begin{aligned} & 42,46-48,50-54 \\ & \text { SB: } 38-3,38-5 \text { to } \\ & 38-7,38-9 \text { to } 38- \\ & 1739-7 \text { to } 39-4 \end{aligned}$ |
| 5.4a | find the perimeter and area of rectangles and squares, using appropriate units. |  |  | 41, 42, 46 <br> SB: 38-3, 38-6 |
| 5.5 | Describe how a change in an object's linear dimensions affects its perimeter, area, and volume. |  |  | $\begin{aligned} & 51 \\ & \text { SB: } 38-11 \end{aligned}$ |
| 5.5a | Demonstrate how changing one of the dimensions of a rectangle affects its perimeter (using concrete materials or graph paper). |  |  | 51 <br> SB: 38-11 |
| 5.5b | Demonstrate how change in one of the dimensions of a rectangle affects its area (using concrete materials or graph paper). |  |  | $\begin{aligned} & 51 \\ & \text { SB: } 38-11 \end{aligned}$ |


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| 5.6 | Select and use appropriate units and tools to measure to the degree of accuracy required in a particular problem-solving situation. |  |  | $\begin{aligned} & 6,30,32 \\ & \text { SB: } 36-2,36-7 \end{aligned}$ |
| 5.6a | Select and use the appropriate unit and tool to measure to the degree of accuracy required in a particular problem. |  |  | $\begin{aligned} & 6,30,32 \\ & \text { SB: } 36-2 \end{aligned}$ |
| 5.6b | Measure the sides of rectangles, squares, and triangles to the nearest $1 / 4$ inch and nearest centimeter |  |  | $\begin{aligned} & 41,45 \\ & \text { SB: } 38-2 \end{aligned}$ |
|  | STANDARD 6 |  |  |  |
| 6. | Students link concepts and procedures as they develop and use computational techniques, including estimation, mental arithmetic, paper-and-pencil, calculators, and computers in problem-solving situations and communicate the reasoning used in solving these. |  |  |  |
| 6.1 | Use models to explain how ratios, proportions, and percents can be used to solve real-world problems. |  | $\begin{aligned} & 9,67 \\ & \text { SB: } 12-8,29-3 \\ & 53-1 \text { to } 53-4 \end{aligned}$ | 56-61 <br> SB: 52-1 to 52-5 |
| 6.1 a | Use concrete materials or pictures, determine commonly used percentages (for example, 25\%, 50\%) in problem-solving situations. |  | 67, 72 |  |
| 6.2 | Construct, use, and explain procedures to compute and estimate with whole numbers, fractions, decimals, and integers. | $\begin{aligned} & 23-28,68,69 \\ & \text { SB: 6-1, 7-1, 9-1, } \\ & 49-1,49-2,50-1, \\ & 50-2,59-5,59-6 \end{aligned}$ | $\begin{aligned} & 12,24,25,54-65 \\ & \text { SB: } 13-3,15-1, \\ & 18-3 \end{aligned}$ |  |
| 6.2a | Demonstrate the conceptual meaning of the four basic arithmetic operations (addition, subtraction, multiplication, and division). | $\begin{aligned} & 23,25,31,39 \\ & \text { SB: 8-1, 9-1 } \end{aligned}$ |  |  |


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| 6.2b | Use and explain strategies to add, subtract, multiply and divide whole numbers in problem-solving situations. | $\begin{aligned} & 23-28,32-37,40- \\ & 47 \\ & \text { SB: } 6-1,7-1,8-4 \end{aligned}$ |  |  |
| 6.2 c | Demonstrate proficiency of addition, subtraction, multiplication, and division of whole numbers in problem-solving situations. | 23-28 |  |  |
| 6.2d | Use and explain strategies to add and subtract commonly-used fractions with like denominators in problem-solving situations. |  | $14,15$ <br> SB: 15-1, 15-2 |  |
| 6.2 e | Use and explain strategies to add and subtract commonly-used decimals in problem-solving situations. |  | 54, 55 <br> SB: 26-2, 26-3 |  |
| 6.3 | Develop, apply, and explain a variety of different estimation strategies in problem-solving situations, and explain why an estimate may be acceptable in place of an exact answer. | $\begin{aligned} & 27-29,48,49,51, \\ & 52 \\ & \text { SB: } 49-1,49-2,50 \\ & 1 \text { to } 50-3 \end{aligned}$ | $\begin{aligned} & 24-27 \\ & \text { SB: } 13-3,18-3,18- \\ & 4,45-3,45-5,45- \\ & 6,45-8 \text { to } 45-11 \end{aligned}$ | SB: 49-1, 50-1 |
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| 6.4 | Select and use appropriate algorithms for computing with commonly used fractions and decimals, percents, and integers in problem solving and determine whether the results are reasonable. |  | 26, 27, 55, 56 <br> SB: 45-1, 45-3, <br> 45-5, 45-9 |  |
| 6.4a | Determine whether information given in a problem-solving situation is sufficient, insufficient, or extraneous. | $\begin{aligned} & \text { 29, } 53 \\ & \text { SB: } 45-9,45-11 \end{aligned}$ |  |  |
| 6.4b | Given a real-world problem, use an appropriate method (mental arithmetic, estimation, paper-andpencil, calculator) to correctly solve the problem. | SB: 45-8 | 32 |  |


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| 6.4c | given a math sentence, use any one of the four operations with whole numbers, create and illustrate a realworld problem. | 42 (T.G.) |  |  |
| $6.4 d$ | In a problem-solving situation, determine whether the results are reasonable and justify those results with correct computations. | 49 | $\begin{aligned} & \text { 26, } 56 \\ & \text { SB: } 45-3,45-11 \end{aligned}$ |  |

