


|  |  | Moving with Algebra Part A Student Book \& SB (Skill Builder) | Moving with Algebra Part B Student Book \& SB (Skill Builder) | Moving with Algebra Part C Student Book \& SB (Skill Builder) |  |
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| (B) | apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers. | $\begin{aligned} & 104-106,108-110, \\ & 113,116-119 \\ & \text { SB: } 86-88,91,93, \\ & 96,100,101 \end{aligned}$ |  |  |  |
| 7.4 | Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. |  |  |  |  |
| (A) | represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $\mathrm{d}=\mathrm{rt}$; |  | $\begin{aligned} & 231-234,311-317 \\ & \text { SB: } 196,197,236- \\ & 239,254,259 \end{aligned}$ | $\begin{aligned} & 362-364 \\ & \text { SB: } 283,285,287, \\ & 298-300 \end{aligned}$ |  |
| (B) | calculate unit rates from rates in mathematical and real-world problems; | 155 | $\begin{aligned} & 275,277,278 \\ & \text { SB: } 223,246 \end{aligned}$ |  |  |
| (C) | determine the constant of proportionality ( $\mathrm{k}=$ $y / x$ ) within mathematical and real-world problems; |  | $\begin{aligned} & 314,315,316 \\ & \text { SB: } 237,239 \end{aligned}$ | $\begin{aligned} & 363 \\ & \text { SB: } 284,285,297 \end{aligned}$ |  |
| (D) | solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems | $172-178$ <br> SB: 136-138, 146a | $\begin{aligned} & \text { 222, 276, } 277 \\ & \text { SB: } 187,188,222 \end{aligned}$ |  |  |
| (E) | convert between measurement systems, including the use of proportions and the use of unit rates. |  | $\begin{aligned} & 233,234 \\ & \text { SB: } 198,199 \end{aligned}$ | $363$ <br> SB: 297 |  |
| 7.5 | Proportionality. The student applies mathematical process standards to use geometry to describe or solve problems involving proportional relationships. |  |  |  |  |
| (A) | generalize the critical attributes of similarity, including ratios within and between similar shapes; |  | 224 |  |  |


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| (B) | describe $\pi$ as the ratio of the circumference of a circle to its diameter; |  |  | 297 |  |
| (C) | solve mathematical and real-world problems involving similar shape and scale drawings. |  | $\begin{aligned} & 224-227 \\ & \text { SB: } 189,191,192 \end{aligned}$ |  |  |
| 7.6 | Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships |  |  |  |  |
| (A) | represent sample spaces for simple and compound events using lists and tree diagrams; |  |  |  |  |
| (B) | select and use different simulations to represent simple and compound events with and without technology |  |  |  |  |
| (C) | make predictions and determine solutions using experimental data for simple and compound events; |  |  |  |  |
| (D) | make predictions and determine solutions using theoretical probability for simple and compound events ; |  |  |  |  |
| (E) | find the probabilities of a simple event and its complement and describe the relationship between the two; |  |  |  |  |
| (F) | use data from a random sample to make inferences about a population; |  |  |  |  |
| (G) | solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents; | 179 |  |  |  |
| (H) | solve problems using qualitative and quantitative predictions and comparisons from simple experiments; |  |  |  |  |


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| (I) | determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces. |  |  |  |  |
| 7.7 | Expressions, equations, and relationships. The student applies mathematical process standards to represent linear relationships using multiple representations. The student is expected to represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form $y=$ $m x+b$. |  |  | $\begin{aligned} & 340,341,349 \\ & \text { SB: } 263,264,273, \\ & 296 \end{aligned}$ |  |
| 7.8 | Expressions, equations, and relationships. The student applies mathematical process standards to develop geometric relationships with volume. |  |  |  |  |
| (A) | model the relationship between the volume of a rectangular prism and a rectangular pyramid having both congruent bases and heights and connect that relationship to the formulas; |  |  |  |  |
| (B) | explain verbally and symbolically the relationship between the volume of a triangular prism and a triangular pyramid having both congruent bases and heights and connect that relationship to the formulas; |  |  |  |  |
| (C) | use models to determine the approximate formulas for the circumference and area of a circle and connect the models to the actual formulas. |  |  |  |  |
| 7.9 | Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. |  |  |  |  |

$\left.\begin{array}{|c|l||l|l|l|l|}\hline & & \begin{array}{c}\text { Moving with } \\ \text { Algebra Part A } \\ \text { Student Book \& SB } \\ \text { (Skill Builder) }\end{array} & \begin{array}{c}\text { Moving with } \\ \text { Algebra Part B } \\ \text { Student Book \& SB } \\ \text { (Skill Builder) }\end{array} & \begin{array}{c}\text { Moving with } \\ \text { Algebra Part C } \\ \text { Student Book \& SB } \\ \text { (Skill Builder) }\end{array} & \\ \hline \text { (A) } & \begin{array}{l}\text { solve problems involving the volume of } \\ \text { rectangular prisms, triangular prisms, rectangular } \\ \text { pyramids, and triangular pyramids; }\end{array} & & 212-214 \\ \text { SB: 180-182 }\end{array}\right]$

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| (C) | determine the area of composite figures containing combinations [any combination] of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles; |  |  |  |  |
| (D) | solve problems involving the lateral and total surface area of a rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by determining the area of the shape's net |  |  |  |  |
| 7.10 | Expressions, equations, and relationships. The student applies mathematical process standards to use one-variable equations and inequalities to represent situations. |  |  |  |  |
| (A) | write one-variable, two-step equations and inequalities to represent constraints or conditions within problems; |  | $\begin{aligned} & \text { 252, 274, } 333 \\ & \text { SB: 208, } 225 \end{aligned}$ | $\begin{aligned} & 340,341 \\ & \text { SB: } 263,264 \end{aligned}$ |  |
| (B) | represent solutions for one-variable, two-step equations and inequalities on number lines; |  | $\begin{aligned} & \text { 281, } 285,286 \\ & \text { SB: } 225 \end{aligned}$ | $\begin{aligned} & \text { 375, 376 } \\ & \text { SB: 291, } 293 \\ & \hline \end{aligned}$ |  |
| (C) | write a corresponding real-world problem given a one-variable, two-step equation or inequality. |  | 261 (Follow-Up) |  |  |
| 7.11 | Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. |  |  |  |  |
| (A) | model and solve one-variable, two-step equations and inequalities; |  | $\begin{aligned} & 260,261,285,286, \\ & 333 \\ & \text { SB: } 216-218,225, \\ & 245 \end{aligned}$ | 344, 347, 376 SB: 267, 270,271, 290, 291, 293, 301 |  |
| (B) | determine if the given value(s) make(s) onevariable, two-step equations and inequalities true; |  | $\begin{aligned} & 318,319 \\ & \text { SB: } 240 \end{aligned}$ | 296 |  |


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| (C) | write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationships. |  | 194, 195, 197, 200 SB: 165, 167, 218 |  |  |
| 7.12 | Measurement and data. The student applies mathematical process standards to use statistical representations to analyze data. |  |  |  |  |
| (A) | compare two groups of numeric data using comparative dot plots or box plots by comparing their shapes, centers, and spreads; |  |  |  |  |
| (B) | use data from a random sample to make inferences about a population |  |  |  |  |
| (C) | compare two populations based on data in random samples from these populations, including informal comparative inferences about differences between the two populations. |  |  |  |  |
| 7.13 | Personal financial literacy. The student applies mathematical process standards to develop an economic way of thinking and problem solving useful in one's life as a knowledgeable consumer and investor. |  |  |  |  |
| (A) | calculate the sales tax for a given purchase and calculate income tax for eamed wages | $\begin{aligned} & \text { 173, } 176 \\ & \text { SB: } 137 \end{aligned}$ |  |  |  |
| (B) | identify the components of a personal budget, including income; planned savings for college, retirement, and emergencies; taxes; and fixed and variable expenses, and calculate what percentage each category comprises of the total budget |  |  |  |  |


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| (C) | create and organize a financial assets and <br> liabilities record and construct a net worth <br> statement; |  |  |  |  |
| (D) | use a family budget estimator to determine the <br> minimum household budget and average hourly <br> wage needed for a family to meet its basic needs <br> in the student's city or another large city nearby; |  |  |  |  |
| (E) | calculate and compare simple interest and <br> compound interest earnings; |  |  |  |  |
| (F) | analyze and compare monetary incentives, <br> including sales, rebates, and coupons. |  |  |  |  |
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