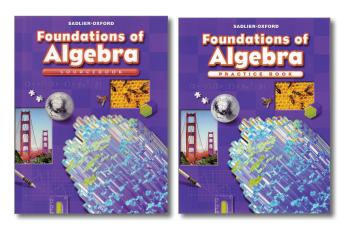
SADLIER

# Foundations of Algebra



Aligned to the

# **Georgia** Standards of Excellence 2015-2016 Mathematics



## Contents

- 2 The Number System
- 3 Equations and Expressions
- 7 Functions
- 9 Geometry
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# The Number System

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Know that there are numbers that are not rational, and approximate them by rational numbers.

| MGSE8.NS.1 | Know that numbers that are not rational are<br>called irrational. Understand informally that<br>every number has a decimal expansion; for<br>rational numbers show that the decimal<br>expansion repeats eventually, and convert a<br>decimal expansion which repeats eventually<br>into a rational number. |
|------------|---|
| MGSE8.NS.2 | Use rational approximation of irrational<br>numbers to compare the size of irrational<br>numbers, locate them approximately on a  |

numbers to compare the size of mattonal numbers, locate them approximately on a number line, and estimate the value of expressions (e.g., estimate  $\pi^2$  to the nearest tenth). For example, by truncating the decimal expansion of  $\sqrt{2}$  (square root of 2), show that  $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations. SADLIER FOUNDATIONS OF ALGEBRA, GRADE 8

- **1-1 The Rational Numbers** TE pp. 2–3B; SB pp. 2–3 / PB pp. 1–2
- 1-2 The Rational Numbers on a Number Line— TE pp. 4–5B; SB pp. 4–5 / PB pp. 3–4
- **2-5 Irrational Numbers** TE pp. 44–45B; SB pp. 44–45 / PB pp. 47–48
- **2-4 Estimate Square Roots** TE pp. 42–43B; SB pp. 42–43 / PB pp. 45–46
- **2-5 Irrational Numbers** TE pp. 44–45B; SB pp. 44–45 / PB pp. 47–48

## **Expressions and Equations**

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#### Work with radicals and integer exponents.

MGSE 8.EE.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example,  $3^2 \times 3^{(-5)} = 3^{(-3)} = 1/(3)^3$ = 1/27.Use square root and cube root symbols to MGSE8.EE.2 represent solutions to equations. Recognize that  $x^2 = p$  (where p is a positive rational number and  $|x| \le 25$ ) has 2 solutions and  $x^3 = p$ (where p is a negative or positive rational number and  $|x| \le 10$ ) has one solution. Evaluate square roots of perfect squares  $\leq$  625 and cube roots of perfect cubes  $\geq$  -1000 and  $\leq$  1000. MGSE8.EE.3 Use numbers expressed in scientific notation to estimate very large or very small quantities, and to express how many times as much one is than the other. For example, estimate the

population of the United States as 3 × 108 and<br/>the population of the world as 7 × 109, and<br/>determine that the world population is more<br/>than 20 times larger.MGSE8.EE.4Add. subtract. multiply and divide numbers

MGSE8.EE.4 Add, subtract, multiply and divide numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Understand scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g. use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology (e.g. calculators).

Understand the connections between proportional relationships, lines, and linear equations.

MCC.8.EE.5 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a — continued — SADLIER FOUNDATIONS OF ALGEBRA, GRADE 8

- **1-12 Integral Exponents** TE pp. 24–25B; SB pp. 24–25 / PB pp. 23–24
- **1-13 Powers and Exponents** TE pp. 26–27B; SB pp. 26–27 / PB pp. 25–26
- **2-3 Perfect Squares and Square Roots** TE pp. 40–41B; SB pp. 40–41 / PB pp. 43–44
- **2-4 Estimate Square Roots** TE pp. 42–43B; SB pp. 42–43 / PB pp. 45–46
- \*12-5A Perfect Cubes and Cube Roots Online \*12-5B Use Cube Root Symbols – Online
- **2-1 Scientific Notation** TE pp. 36–37B; SB pp. 36–37 / PB pp. 39–40
- 2-2 Multiply and Divide in Scientific Notation—TE pp. 38– 39B; SB pp. 38–39 / PB pp. 41–42
- 2-2 Multiply and Divide in Scientific Notation—TE pp. 38– 39B; SB pp. 38–39 / PB pp. 41–42

- **6-9 Direct Variation** TE pp. 172–173B; SB pp. 172–173 / PB pp. 191–192
- **7-1 Ratios, Rates, and Unit Rates** TE pp. 188–189B; SB pp. 188–189 / PB pp. 211–212

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## **Expressions and Equations**

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distance-time equation to determine which of two moving objects has greater speed.

**MGSE8.EE.6** Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation y = mx for a line through the origin and the equation y = mx + b for a line intercepting the vertical axis at b.

Analyze and solve linear equations and pairs of simultaneous linear equations.

MGSE8.EE.7 Solve linear equations in one variable.

**MGSE8.EE.7a** Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form x = a, a = a, or a = b results (where a and b are different numbers).

**MGSE8.EE.7b** Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.

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- **7-3 Conversion Factors and Measurement Systems**—TE pp. 192–193B; SB pp. 192–193 / PB pp. 215–216
- **7-5 Direct Proportions** TE pp. 196–197B; SB pp. 196–197 / PB pp. 219–220
- \*7-5A Proportions and Unit Rates Online
- \*7-5B Graph Proportional Relationships Online
- \*7-5C Compare Proportional Relationships Online
- 6-6 Linear Functions: Standard Form and Slope-Intercept Form — TE pp. 166–167B; SB pp. 166–167 / PB pp. 185–186 6-9 Direct Variation — TE pp. 172–173B; SB pp. 172–173 / PB

pp. 191–192

- **10-7 Coordinate Plane and Polygons** TE pp. 278–279B; SB pp. 278–279 / PB pp. 313–314
- **3-3 Equations** TE pp. 68–69B; SB pp. 68–69 / PB pp. 75–76 **\*3-5A Identify Equations with One, Many, or No Solutions** —
- Online \*3-5B Solve Equations with One, Many, or No Solutions — Online
- **1-15 Problem-Solving Strategy: Make a Drawing** TE pp. 30– 31B; SB pp. 30–31 / PB pp. 29–30
- **3-3 Equations** TE pp. 68–69B; SB pp. 68–69 / PB pp. 75–76
- **3-4 One-Step Addition and Subtraction Equations** TE pp. 70–71B; SB pp. 70–71 / PB pp. 77–78
- **3-5 One-Step Multiplication and Division Equations** TE pp. 72–73B; SB pp. 72–73 / PB pp. 79–80
- **3-6 Model Two-Step Equations** TE pp. 74–75B; SB pp. 74–75 / PB pp. 81–82
- **3-7 Two-Step Equations** TE pp. 76–77B; SB pp. 76–77 / PB pp. 83–84
- **3-8 Multistep Equations with Grouping Symbols** TE pp. 78– 79B; SB pp. 78–79 / PB pp. 85–86
- **3-9 Multistep Equations with Variables on Both Sides** TE pp. 80–81B; SB pp. 80–81 / PB pp. 87–88

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#### **Expressions and Equations** 8.EE GEORGIA STANDARDS OF EXCELLENCE 2015-2016: MATHEMATICS SADLIER FOUNDATIONS OF ALGEBRA, GRADE 8 3-10 Multistep Equations: Fractions and Decimals — TE pp. 82-83B; SB pp. 82-83 / PB pp. 89-90 3-14 Problem-Solving Strategy: Guess and Test — TE pp. 90-91B; SB pp. 90–91 / PB pp. 97–98 6-14 Problem-Solving Strategy: Reason Logically - TE pp. 182-183B; SB pp. 182-183 / PB pp. 201-202 **7-2 Proportions** – TE pp. 190–191B; SB pp. 190–191 / PB pp. 213-214 7-12 Problem-Solving Strategy: Solve a Simpler Problem -TE pp. 210-211B; SB pp. 210-211 / PB pp. 233-234 9-13 Problem-Solving Strategy: Adopt a Different Point of **View** – TE pp. 260–261B; SB pp. 260–261 / PB pp. 291–292 10-12 Problem-Solving Strategy: Work Backward - TE pp. 288-289B; SB pp. 288-289 / PB pp. 323-324 12-11 Problem-Solving Strategy: Review of Strategies (Find a Pattern/Adopt a Different Point of View) — TE pp. 338–339B; SB pp. 338-339 / PB pp. 381-382 MGSE8.EE.8 Analyze and solve pairs of simultaneous linear equations (systems of linear equations). MGSE8.EE.8a Understand that solutions to 6-1 Relations and Functions - TE pp. 156-157B; SB pp. 156a system of two linear equations in two 157 / PB pp. 175-176 variables correspond to points of 6-2 Graphs of Functions – TE pp. 158–159B; SB pp. 158–159 / intersection of their graphs, because points PB pp. 177-178 of intersection satisfy both equations simultaneously. MGSE8.EE.8b Solve systems of two linear 3-14 Problem-Solving Strategy: Guess and Test - TE pp. 90equations in two variables algebraically, 91B; SB pp. 90-91 / PB pp. 97-98 and estimate solutions by graphing the 6-10 Solve Systems of Equations by Graphing-TE pp. 174equations. Solve simple cases by inspection. For example, 3x + 2y = 5 and 3x + 3y = 5175B; SB pp. 174-175 / PB pp. 193-194 6-11 Solve Systems of Equations by Substitution and 2y = 6 have no solution because 3x + 2ycannot simultaneously be 5 and 6. **Elimination** – TE pp. 176–177B; SB pp. 176–177 / PB pp. 195-196 6-14 Problem-Solving Strategy: Reason Logically – TE pp. 182-183B; SB pp. 182-183 / PB pp. 201-202 9-13 Problem-Solving Strategy: Adopt a Different Point of View – TE pp. 260–261B; SB pp. 260–261 / PB pp. 291–292 11-10 Problem-Solving Strategy: Account for All **Possibilities** – TE pp. 312–313B; SB pp. 312–313 / PB pp.

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**8.EE** 

## **Expressions and Equations**

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**MGSE8.EE.8c** Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair. SADLIER FOUNDATIONS OF ALGEBRA, GRADE 8

- **3-14 Problem-Solving Strategy: Guess and Test** TE pp. 90– 91B; SB pp. 90–91 / PB pp. 97–98
- **6-10 Solve Systems of Equations by Graphing**—TE pp. 174– 175B; SB pp. 174–175 / PB pp. 193–194

6-11 Solve Systems of Equations by Substitution and Elimination — TE pp. 176–177B; SB pp. 176–177 / PB pp. 195–196

- \*6-11A Use Systems to Solve Problems Online
- **11-10 Problem-Solving Strategy: Account for All Possibilities** – TE pp. 312–313B; SB pp. 312–313 / PB pp. 351–352

## **Functions**

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#### Define, evaluate, and compare functions.

- MGSE8.F.1 Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output. MGSE8.F.2 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the
- MGSE8.F.3 Interpret the equation y = mx + b as defining a linear function, whose graph is a straight line; give examples of functions that are not linear. For example, the function  $A = s^2$  giving the area of a square as a function of its side length is not linear because its graph contains the points (1,1), (2,4) and (3,9), which are not on a straight line.

greater rate of change.

## Use functions to model relationships between quantities.

MGSE8.F.4 Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values. MGSE8.F.5 Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is

increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.

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- 6-1 Relations and Functions TE pp. 156-157B; SB pp. 156-157 / PB pp. 175-176
- 6-2 Graphs of Functions TE pp. 158–159B; SB pp. 158–159 / PB pp. 177-178

\*6-2A Compare Functions — Online

6-2 Graphs of Functions - TE pp. 158-159B; SB pp. 158-159 / PB pp. 177-178

\*6-2A Compare Functions — Online

- 6-6 Linear Functions: Standard Form and Slope-Intercept **Form** — TE pp. 166–167B; SB pp. 166–167 / PB pp. 185–186
- 11-6 Nonlinear Functions: Quadratic TE pp. 304–305B; SB pp. 304-305 / PB pp. 343-344
- **11-7 Other Nonlinear Functions** TE pp. 306–307B; SB pp. 306-307 / PB pp. 345-346
- **11-9 Technology: Graphs of Nonlinear Functions** TE pp. 310-311B; SB pp. 310-311 / PB pp. 349-350
- 6-1 Relations and Functions TE pp. 156–157B; SB pp. 156– 157 / PB pp. 175-176
- 6-2 Graphs of Functions TE pp. 158–159B; SB pp. 158–159 / PB pp. 177-178

- **6-4 Slope of a Line** TE pp. 162–163B; SB pp. 162–163 / PB pp. 181-182
- 6-5 The x- and y-Intercepts of a Line TE pp. 164–165B; SB pp. 164-165 / PB pp. 183-184
- 6-6 Linear Functions: Standard Form and Slope-Intercept **Form** – TE pp. 166–167B; SB pp. 166–167 / PB pp. 185–186

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# Functions

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- **6-7 Linear Functions: Point-Slope Form** TE pp. 168–169B; SB pp. 168–169 / PB pp. 187–188
- **11-5 Find Function Values** TE pp. 302–303B; SB pp. 302–303 / PB pp. 341–342
- 12-11 Problem-Solving Strategy: Review of Strategies (Find a Pattern/Adopt a Different Point of View) — TE pp. 338–339B; SB pp. 338–339 / PB pp. 381–382

8.F

## Geometry

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Understand congruence and similarity using physical models, transparencies, or geometry software.

| MGSE8.G.1 | Verify experimentally the congruence<br>properties of rotations, reflections, and<br>translations: lines are taken to lines and line<br>segments to line segments of the same length;<br>angles are taken to angles of the same<br>measure; parallel lines are taken to parallel<br>lines.                    | *10-9A Properties of Rigid Transformations—Online  |  |
|-----------|---|--|--|
| MGSE8.G.2 | Understand that a two-dimensional figure is<br>congruent to another if the second can be<br>obtained from the first by a sequence of<br>rotations, reflections, and translations; given<br>two congruent figures, describe a sequence<br>that exhibits the congruence between them.                           | <ul> <li>9-5 Congruent Polygons — TE pp. 244–245B; SB pp. 244–245 / PB pp. 275–276</li> <li>9-13 Problem-Solving Strategy: Adopt a Different Point of View — TE pp. 260–261B; SB pp. 260–261 / PB pp. 291–292</li> <li>10-8 Coordinate Plane: Reflections and Translations — TE pp. 280–281B; SB pp. 280–281 / PB pp. 315–316</li> <li>10-9 Coordinate Plane: Rotations — TE pp. 282–283B; SB pp. 282–283 / PB pp. 317–318</li> <li>10-10 Coordinate Plane: Dilations — TE pp. 284–285B; SB pp. 284–285 / PB pp. 319–320</li> <li>10-11 Combine Transformations — TE pp. 286–287B; SB pp. 286–287 / PB pp. 321–322</li> <li>*10-11A Transformations and Congruence — Online</li> </ul> |  |
| MGSE8.G.3 | Describe the effect of dilations, translations,<br>rotations, and reflections on two-dimensional<br>figures using coordinates.  | <ul> <li>10-7 Coordinate Plane and Polygons — TE pp. 278–279B; SB pp. 278–279 / PB pp. 313–314</li> <li>10-8 Coordinate Plane: Reflections and Translations — TE pp. 280–281B; SB pp. 280–281 / PB pp. 315–316</li> <li>10-9 Coordinate Plane: Rotations — TE pp. 282–283B; SB pp. 282–283 / PB pp. 317–318</li> <li>10-10 Coordinate Plane: Dilations — TE pp. 284–285B; SB pp. 284–285 / PB pp. 319–320</li> </ul>   |  |
| MGSE8.G.4 | Understand that a two-dimensional figure is<br>similar to another if the second can be<br>obtained from the first by a sequence of<br>rotations, reflections, translations, and<br>dilations; given two similar two-dimensional<br>figures, describe a sequence that exhibits the<br>similarity between them. | <ul> <li>7-9 Similarity— TE pp. 204–205B; SB pp. 204–205 / PB pp. 227–228</li> <li>10-11 Combine Transformations — TE pp. 286–287B; SB pp. 286–287 / PB pp. 321–322</li> <li>*10-11A Transformations and Congruence — Online</li> <li>*10-11B Transformations and Similarity — Online</li> </ul>   |  |
| MGSE8.G.5 | Use informal arguments to establish facts<br>about the angle sum and exterior angle of<br>— continued —   | <b>7-9 Similarity</b> — TE pp. 204–205B; SB pp. 204–205 / PB pp. 227–<br>228<br>— continued —  |  |

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- SADLIER FOUNDATIONS OF ALGEBRA, GRADE 8

## Geometry

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triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give an argument in terms of transversals why this is so.

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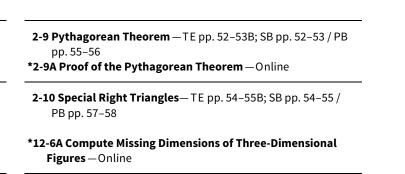
- 7-12 Problem-Solving Strategy: Solve a Simpler Problem -TE pp. 210-211B; SB pp. 210-211 / PB pp. 233-234
- **9-1 Angle Pairs** TE pp. 236–237B; SB pp. 236–237 / PB pp. 267-268
- 9-2 Angles of Parallel Lines TE pp. 238-239B; SB pp. 238-239 / PB pp. 269–270
- 9-4 Angles of Polygons TE pp. 242–243B; SB pp. 242–243 / PB pp. 273-274

\*9-4A Angle-Angle Criterion for Similar Triangles – Online

## Understand and apply the Pythagorean Theorem.

| MGSE8.G.6   | Explain a proof of the Pythagorean Theorem and its converse.  | <ul> <li>2-9 Pythagorean Theorem — TE pp. 52–53B; SB pp. 52–53 / PB pp. 55–56</li> <li>*2-9A Proof of the Pythagorean Theorem — Online</li> </ul>   |  |
|-------------|---|---|--|
| MGSE8.G.7   | Apply the Pythagorean Theorem to determine<br>unknown side lengths in right triangles in real-<br>world and mathematical problems in two and<br>three dimensions. | <ul> <li>2-10 Special Right Triangles — TE pp. 54–55B; SB pp. 54–55 / PB pp. 57–58</li> <li>*12-6A Compute Missing Dimensions of Three-Dimensional Figures — Online</li> </ul>  |  |
| MGSE8.G.8   | Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.   | <ul> <li>10-7 Coordinate Plane and Polygons — TE pp. 278–279B; SB pp. 278–279 / PB pp. 313–314</li> <li>*10-7A Apply Pythagorean Theorem — Online</li> </ul>  |  |
|             |   |   |  |
| involving v | world and mathematical problems<br>olume of cylinders, cones, and   |   |  |
|             | •   | <ul> <li>12-5 Volume of Prisms and Cylinders — TE pp. 326–327B; SB pp. 326–327 / PB pp. 369–370</li> <li>12-6 Volume of Pyramids and Cones — TE pp. 328–329B; SB pp. 328–329 / PB pp. 371–372</li> <li>12-7 Volume of Spheres — TE pp. 330–331B; SB pp. 330–331 / PB pp. 373–374</li> </ul> |  |

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<sup>13-12</sup> Problem-Solving Strategy: Consider Extreme Cases – TE pp. 366-367B; SB pp. 366-367 / PB pp. 413-414

## Statistics and Probability

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### Investigate patterns of association in bivariate data.

| MGSE8.SP.1 | Construct and interpret scatter plots for<br>bivariate measurement data to investigate<br>patterns of association between two<br>quantities. Describe patterns such as<br>clustering, outliers, positive or negative<br>association, linear association, and nonlinear<br>association.  | 6-3 Scatter Plots —TE<br>179–180<br>*6-3A Analyze Outliers<br>*6-3B Clustering —Onli<br>*6-3C Analyze Scatter F |  |
|------------|---|---|--|
| MGSE8.SP.2 | Know that straight lines are widely used to<br>model relationships between two quantitative<br>variables. For scatter plots that suggest a linear<br>association, informally fit a straight line, and<br>informally assess the model fit by judging the<br>closeness of the data points to the line.  | <b>6-3 Scatter Plots</b> —TE<br>179–180   |  |
| MGSE8.SP.3 | Use the equation of a linear model to solve<br>problems in the context of bivariate<br>measurement data, interpreting the slope and<br>intercept. For example, in a linear model for a<br>biology experiment, interpret a slope of 1.5<br>cm/hr as meaning that an additional hour of<br>sunlight each day is associated with an<br>additional 1.5 cm in mature plant height. | *6-7A Analyzing Trend<br>*6-7B Use Linear Mode  |  |
| MGSE8.SP.4 | Understand that patterns of association can<br>also be seen in bivariate categorical data by<br>displaying frequencies and relative frequencies<br>in a two-way table.  |   |  |
|            | a. Construct and interpret a two-way table summarizing data on two categorical  | <b>2-12 Problem-Solving</b><br>59B; SB 58-59 / PB   |  |

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Epp. 160–161B; SB pp. 160–161 / PB pp. s – Online

line

Plots – Online

E pp. 160–161B; SB pp. 160–161 / PB pp.

Lines—Online els to Solve Problems— Online

- g Strategy: Organize Data— TE pp. 58-3 pp. 61–62
- 11-10 Problem-Solving Strategy: Account for All **Possibilities** – TE pp. 312–313B; SB pp. 312–313 / PB pp. 351-352
- \*13-5A Patterns of Association in Categorical Data Online \*13-5B Examine Patterns of Association – Online
- b. Use relative frequencies calculated for rows or columns to describe possible - continued -

variables collected from the same subjects.

2-12 Problem-Solving Strategy: Organize Data-TE pp. 58-59B; SB 58-59 / PB pp. 61-62

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# Statistics and Probability

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association between the two variables. For example, collect data from students in your class on whether or not they have a curfew on school nights and whether or not they have assigned chores at home. Is there evidence that those who have a curfew also tend to have chores? SADLIER FOUNDATIONS OF ALGEBRA, GRADE 8

- 11-10 Problem-Solving Strategy: Account for All Possibilities — TE pp. 312–313B; SB pp. 312–313 / PB pp. 351–352
- \*13-5A Patterns of Association in Categorical Data Online \*13-5B Examine Patterns of Association — Online