

# 9-1 Lesson Planning Guide (pp. 432–436)



Teacher's Name \_\_\_\_\_ Dates \_\_\_\_\_

Grade \_\_\_\_\_ Class \_\_\_\_\_ M Tu W Th F

Materials/resources needed: \_\_\_\_\_

## Objectives

\_\_\_\_\_ 9-1.1: Write ratios as fractions in simplest form.

\_\_\_\_\_ 9-1.2: Determine unit rates.

\_\_\_\_\_ **South Carolina Math Curriculum Standards, Grade 8: MEA I.B.1.**

\_\_\_\_\_ State/local objectives: \_\_\_\_\_

## NCTM Curriculum Standards: 1, 2, 4-10

### 1 FOCUS

\_\_\_\_\_ 5-Minute Check, *TWE*, p. 432

\_\_\_\_\_ ⇨ Transparency 9-1A

\_\_\_\_\_ Motivating the Lesson, Hands-On Activity, *TWE*, p. 433

### 2 TEACH

\_\_\_\_\_ In-Class Examples, *TWE*, pp. 433, 434

\_\_\_\_\_ ⇨ Transparency 9-1B

\_\_\_\_\_ Reteaching, Using Manipulatives, *TWE*, p. 435

\_\_\_\_\_ ⇨ Study Guide Masters, p. 71

\_\_\_\_\_ Alternative Learning Styles, Visual, *TWE*, p. 432

### 3 PRACTICE/APPLY

\_\_\_\_\_ Checking Your Understanding, *SE*, p. 434

#### Homework Assignments


\_\_\_\_\_ Core: 15–39 odd, 40–46

\_\_\_\_\_ Enriched: 16–32 even, 33–46

\_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

\_\_\_\_\_ Extra Practice, *SE*, p. 761

\_\_\_\_\_ ⇨ Practice Masters, p. 71

\_\_\_\_\_ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 79

### 4 ASSESS

\_\_\_\_\_ Closing Activity, Writing, *TWE*, p. 436

\_\_\_\_\_ Extension, Using Models, *TWE*, p. 436

\_\_\_\_\_ ⇨ Enrichment Masters, p. 71

\_\_\_\_\_ ⇨ Group Activity Card 9-1

**KEY** *SE* = Student Edition    *TWE* = Teacher's Wraparound Edition    ⇨ = Other Program Components

# 9-2 Lesson Planning Guide (pp. 437–438)



Teacher's Name \_\_\_\_\_ Dates \_\_\_\_\_

Grade \_\_\_\_\_ Class \_\_\_\_\_ M Tu W Th F

Materials/resources needed: \_\_\_\_\_

## Objectives

\_\_\_\_\_ 9-2: Solve problems by making a table.

\_\_\_\_\_ State/local objectives: \_\_\_\_\_

## NCTM Curriculum Standards: 1, 2, 4-10

### 1 FOCUS

\_\_\_\_\_ 5-Minute Check, *TWE*, p. 437

\_\_\_\_\_ ⇔ Transparency 9-2A

### 2 TEACH

\_\_\_\_\_ In-Class Examples, *TWE*, p. 437

\_\_\_\_\_ ⇔ Transparency 9-2B

\_\_\_\_\_ Reteaching, Using Connections, *TWE*, p. 437

\_\_\_\_\_ ⇔ Study Guide Masters, p. 72

### 3 PRACTICE/APPLY

\_\_\_\_\_ Checking Your Understanding, *SE*, p. 438

#### Homework Assignments


\_\_\_\_\_ Core: 7–13 odd, 14–19

\_\_\_\_\_ Enriched: 6–14 even, 15–19

\_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

\_\_\_\_\_ Extra Practice, *SE*, p. 761

\_\_\_\_\_ ⇔ Practice Masters, p. 72

\_\_\_\_\_ ⇔  *South Carolina Parent and Student Study Guide Workbook*, p. 80

### 4 ASSESS

\_\_\_\_\_ Closing Activity, Writing, *TWE*, p. 438

\_\_\_\_\_ Extension, Using Technology, *TWE*, p. 438

\_\_\_\_\_ ⇔ Enrichment Masters, p. 72

\_\_\_\_\_ ⇔ Group Activity Card 9-2

**KEY** *SE* = Student Edition    *TWE* = Teacher's Wraparound Edition    ⇔ = Other Program Components

# 9-3 Lesson Planning Guide (pp. 440–443)



Teacher's Name \_\_\_\_\_ Dates \_\_\_\_\_

Grade \_\_\_\_\_ Class \_\_\_\_\_ M Tu W Th F

Materials/resources needed: \_\_\_\_\_

## Objectives

\_\_\_\_\_ 9-3: Find the probability of simple events.

\_\_\_\_\_ **South Carolina Math Curriculum Standards, Grade 8: DAP IV.B.1.**

\_\_\_\_\_ State/local objectives: \_\_\_\_\_

## NCTM Curriculum Standards: 2, 5-10

### 1 FOCUS

\_\_\_\_\_ 5-Minute Check, *TWE*, p. 440

\_\_\_\_\_ ⇨ Transparency 9-3A

\_\_\_\_\_ Motivating the Lesson, Questioning, *TWE*, p. 441

### 2 TEACH

\_\_\_\_\_ Math Lab 9-3A, *SE*, p. 439

\_\_\_\_\_ In-Class Examples, *TWE*, p. 441

\_\_\_\_\_ ⇨ Transparency 9-3B

\_\_\_\_\_ Reteaching, Using Models, *TWE*, p. 442

\_\_\_\_\_ ⇨ Study Guide Masters, p. 73

\_\_\_\_\_ Alternative Teaching Strategies, Student Diversity, *TWE*, p. 440

\_\_\_\_\_ ⇨ Math Lab and Modeling Math Masters, p. 84

\_\_\_\_\_ ⇨ Graphing Calculator Masters, p. 9

### 3 PRACTICE/APPLY

\_\_\_\_\_ Checking Your Understanding, *SE*, p. 442

\_\_\_\_\_ Error Analysis, *TWE*, p. 443

#### Homework Assignments

\_\_\_\_\_ Core: 17–35 odd, 37–41


\_\_\_\_\_ Enriched: 16–30 even, 32–41

\_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

\_\_\_\_\_ Extra Practice, *SE*, p. 762

\_\_\_\_\_ ⇨ Practice Masters, p. 73

\_\_\_\_\_ ⇨ Real-World Applications, 18

\_\_\_\_\_ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 81

### 4 ASSESS

\_\_\_\_\_ Closing Activity, Modeling, *TWE*, p. 443

\_\_\_\_\_ ⇨ Assessment and Evaluation Masters, Quiz A, p. 239

\_\_\_\_\_ Extension, Using Manipulatives, *TWE*, p. 443

\_\_\_\_\_ ⇨ Enrichment Masters, p. 73

\_\_\_\_\_ ⇨ Activity Masters, p. 39

\_\_\_\_\_ ⇨ Multicultural Activity Masters, p. 17

\_\_\_\_\_ ⇨ Group Activity Card 9-3

**KEY** *SE* = Student Edition    *TWE* = Teacher's Wraparound Edition    ⇨ = Other Program Components

# 9-4 Lesson Planning Guide (pp. 444–447)



Teacher's Name \_\_\_\_\_ Dates \_\_\_\_\_

Grade \_\_\_\_\_ Class \_\_\_\_\_ M Tu W Th F

Materials/resources needed: \_\_\_\_\_

## Objectives

- \_\_\_\_\_ 9-4: Use proportions to solve problems.
- \_\_\_\_\_ **South Carolina Math Curriculum Standards, Grade 8: NO I.A.1., NO III.A.1., NO III.B.1., NO III.D.1., NO III.D.2., DAP I.B.1.**
- \_\_\_\_\_ State/local objectives: \_\_\_\_\_

## NCTM Curriculum Standards: 2, 5-10

### 1 FOCUS

- \_\_\_\_\_ 5-Minute Check, *TWE*, p. 444
- \_\_\_\_\_ ⇨ Transparency 9-4A
- \_\_\_\_\_ Motivating the Lesson, Situational Problem, *TWE*, p. 444

### 2 TEACH

- \_\_\_\_\_ In-Class Examples, *TWE*, pp. 445, 446
- \_\_\_\_\_ ⇨ Transparency 9-4B
- \_\_\_\_\_ Reteaching, Using Cooperative Learning, *TWE*, p. 446
- \_\_\_\_\_ ⇨ Study Guide Masters, p. 74
- \_\_\_\_\_ Cooperative Learning, Inside-Outside Circle, *TWE*, p. 447
- \_\_\_\_\_ Math Lab 9-4B, *SE*, p. 448

### 3 PRACTICE/APPLY

- \_\_\_\_\_ Checking Your Understanding, *SE*, p. 446

#### Homework Assignments

- \_\_\_\_\_ Core: 15–45 odd, 46–53
- \_\_\_\_\_ Enriched: 16–42 even, 43–53
- \_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

- \_\_\_\_\_ Extra Practice, *SE*, p. 762
- \_\_\_\_\_ ⇨ Practice Masters, p. 74
- \_\_\_\_\_ ⇨ Tech Prep Applications Masters, p. 17
- \_\_\_\_\_ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 82

### 4 ASSESS

- \_\_\_\_\_ Closing Activity, Act It Out, *TWE*, p. 447
- \_\_\_\_\_ Extension, Using Connections, *TWE*, p. 447
- \_\_\_\_\_ ⇨ Enrichment Masters, p. 74
- \_\_\_\_\_ ⇨ Activity Masters, p. 23
- \_\_\_\_\_ ⇨ Group Activity Card 9-4

**KEY** *SE* = Student Edition    *TWE* = Teacher's Wraparound Edition    ⇨ = Other Program Components

# 9-5 Lesson Planning Guide (pp. 449–453)



Teacher's Name \_\_\_\_\_ Dates \_\_\_\_\_

Grade \_\_\_\_\_ Class \_\_\_\_\_ M Tu W Th F

Materials/resources needed: \_\_\_\_\_

## Objectives

\_\_\_\_\_ 9-5.1: Use the percent proportion to write fractions as percents.

\_\_\_\_\_ 9-5.2: Solve problems involving percents.

\_\_\_\_\_ **South Carolina Math Curriculum Standards, Grade 8: NO I.A.1., NO I.C.1., NO III.A.1., NO III.B.1., NO III.D.1., NO III.D.2.**

\_\_\_\_\_ State/local objectives: \_\_\_\_\_

## NCTM Curriculum Standards: 2, 6-9

### 1 FOCUS

\_\_\_\_\_ 5-Minute Check, *TWE*, p. 449

\_\_\_\_\_ ⇨ Transparency 9-5A

\_\_\_\_\_ Motivating the Lesson, Situational Problem, *TWE*, p. 449

### 2 TEACH

\_\_\_\_\_ In-Class Examples, *TWE*, pp. 450, 451

\_\_\_\_\_ ⇨ Transparency 9-5B

\_\_\_\_\_ Reteaching, Using Connections, *TWE*, p. 451

\_\_\_\_\_ ⇨ Study Guide Masters, p. 75

\_\_\_\_\_ Alternative Learning Styles, Auditory, *TWE*, p. 449

\_\_\_\_\_ ⇨ Interactive Mathematics Tools Software, 9-5

### 3 PRACTICE/APPLY

\_\_\_\_\_ Checking Your Understanding, *SE*, p. 451

#### Homework Assignments

\_\_\_\_\_ Core: 15–39 odd, 40–46


\_\_\_\_\_ Enriched: 16–34 even, 35–46

\_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

\_\_\_\_\_ Extra Practice, *SE*, p. 762

\_\_\_\_\_ ⇨ Practice Masters, p. 75

\_\_\_\_\_ ⇨ Real-World Applications, 19

\_\_\_\_\_ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 83

### 4 ASSESS

\_\_\_\_\_ Closing Activity, Speaking, *TWE*, p. 453

\_\_\_\_\_ ⇨ Assessment and Evaluation Masters, Quiz B, p. 239

\_\_\_\_\_ ⇨ Assessment and Evaluation Masters, Mid-Chapter Test, p. 238

\_\_\_\_\_ Extension, Using Data, *TWE*, p. 452

\_\_\_\_\_ ⇨ Enrichment Masters, p. 75

\_\_\_\_\_ ⇨ Activity Masters, p. 9

\_\_\_\_\_ ⇨ Multicultural Activity Masters, p. 18

\_\_\_\_\_ ⇨ Group Activity Card 9-5

**KEY** *SE* = Student Edition    *TWE* = Teacher's Wraparound Edition    ⇨ = Other Program Components

# 9-6 Lesson Planning Guide (pp. 454–457)



Teacher's Name \_\_\_\_\_ Dates \_\_\_\_\_

Grade \_\_\_\_\_ Class \_\_\_\_\_ M Tu W Th F

Materials/resources needed: \_\_\_\_\_

## Objectives

- \_\_\_\_\_ 9-6: Use a sample to predict the actions of a larger group.
- \_\_\_\_\_ **South Carolina Math Curriculum Standards, Grade 8: NO I.A.1., NO III.A.1., NO III.B.1., NO III.D.1., NO III.D.2., DAP IV.B.1.**
- \_\_\_\_\_ State/local objectives: \_\_\_\_\_

## NCTM Curriculum Standards: 2, 5-10

### 1 FOCUS

- \_\_\_\_\_ 5-Minute Check, *TWE*, p. 454
- \_\_\_\_\_ ⇨ Transparency 9-6A
- \_\_\_\_\_ Motivating the Lesson, Questioning, *TWE*, p. 454

### 2 TEACH

- \_\_\_\_\_ In-Class Examples, *TWE*, p. 455
- \_\_\_\_\_ ⇨ Transparency 9-6B
- \_\_\_\_\_ Reteaching, Using Manipulatives, *TWE*, p. 455
- \_\_\_\_\_ ⇨ Study Guide Masters, p. 76

### 3 PRACTICE/APPLY

- \_\_\_\_\_ Checking Your Understanding, *SE*, p. 455
- \_\_\_\_\_ Error Analysis, *TWE*, p. 456

#### Homework Assignments

- \_\_\_\_\_ Core: 9–17 odd, 19–23
- \_\_\_\_\_ Enriched: 8–14 even, 15–23
- \_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

- \_\_\_\_\_ Extra Practice, *SE*, p. 762
- \_\_\_\_\_ ⇨ Practice Masters, p. 76
- \_\_\_\_\_ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 84

### 4 ASSESS

- \_\_\_\_\_ Closing Activity, Speaking, *TWE*, p. 457
- \_\_\_\_\_ Self Test, *SE*, p. 457
- \_\_\_\_\_ Extension, Using Logical Reasoning, *TWE*, p. 456
- \_\_\_\_\_ ⇨ Enrichment Masters, p. 76
- \_\_\_\_\_ ⇨ Group Activity Card 9-6

**KEY** *SE* = Student Edition    *TWE* = Teacher's Wraparound Edition    ⇨ = Other Program Components

# 9-7 Lesson Planning Guide (pp. 458–461)



Teacher's Name \_\_\_\_\_ Dates \_\_\_\_\_

Grade \_\_\_\_\_ Class \_\_\_\_\_ M Tu W Th F

Materials/resources needed: \_\_\_\_\_

## Objectives

- \_\_\_\_\_ 9-7: Express decimals and fractions as percents and vice versa.  
**South Carolina Math Curriculum Standards, Grade 8: NO I.A.1., NO I.C.1., NO III.A.1., NO III.B.1.**
- \_\_\_\_\_ State/local objectives: \_\_\_\_\_

## NCTM Curriculum Standards: 2, 6-10

### 1 FOCUS

- \_\_\_\_\_ 5-Minute Check, *TWE*, p. 458  
\_\_\_\_\_ ⇨ Transparency 9-7A  
\_\_\_\_\_ Motivating the Lesson, Situational Problem, *TWE*, p. 458

### 2 TEACH

- \_\_\_\_\_ In-Class Examples, *TWE*, p. 459  
\_\_\_\_\_ ⇨ Transparency 9-7B  
\_\_\_\_\_ Reteaching, Using Cooperative Learning, *TWE*, p. 460  
\_\_\_\_\_ ⇨ Study Guide Masters, p. 77  
\_\_\_\_\_ ⇨ Math Lab and Modeling Math Masters, pp. 67–68  
\_\_\_\_\_ ⇨ Interactive Mathematics Tools Software, 9-7

### 3 PRACTICE/APPLY

- \_\_\_\_\_ Checking Your Understanding, *SE*, p. 460  
\_\_\_\_\_ Error Analysis, *TWE*, p. 460

#### Homework Assignments

- \_\_\_\_\_ Core: 19–53 odd, 54, 55, 57–67  
\_\_\_\_\_ Enriched: 18–52 even, 54–67  
\_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

- \_\_\_\_\_ Extra Practice, *SE*, p. 763  
\_\_\_\_\_ ⇨ Practice Masters, p. 77  
\_\_\_\_\_ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 85

### 4 ASSESS

- \_\_\_\_\_ Closing Activity, Modeling, *TWE*, p. 461  
\_\_\_\_\_ Extension, Using Comparisons, *TWE*, p. 461  
\_\_\_\_\_ ⇨ Enrichment Masters, p. 77  
\_\_\_\_\_ ⇨ Activity Masters, p. 40  
\_\_\_\_\_ ⇨ Group Activity Card 9-7

**KEY** *SE* = Student Edition    *TWE* = Teacher's Wraparound Edition    ⇨ = Other Program Components

# 9-8 Lesson Planning Guide (pp. 462–466)



Teacher's Name \_\_\_\_\_ Dates \_\_\_\_\_

Grade \_\_\_\_\_ Class \_\_\_\_\_ M Tu W Th F

Materials/resources needed: \_\_\_\_\_

## Objectives

- \_\_\_\_\_ 9-8: Use percents to estimate.
- \_\_\_\_\_ **South Carolina Math Curriculum Standards, Grade 8: NO I.C.1., NO III.C.1., DAP I.B.1.**
- \_\_\_\_\_ State/local objectives: \_\_\_\_\_

## NCTM Curriculum Standards: 2, 3, 5-10

### 1 FOCUS

- \_\_\_\_\_ 5-Minute Check, *TWE*, p. 462
- \_\_\_\_\_ ⇨ Transparency 9-8A
- \_\_\_\_\_ Motivating the Lesson, Hands-On Activity, *TWE*, p. 462

### 2 TEACH


- \_\_\_\_\_ In-Class Examples, *TWE*, p. 463
- \_\_\_\_\_ ⇨ Transparency 9-8B
- \_\_\_\_\_ Reteaching, Using Calculators, *TWE*, p. 464
- \_\_\_\_\_ ⇨ Study Guide Masters, p. 78

### 3 PRACTICE/APPLY

- \_\_\_\_\_ Checking Your Understanding, *SE*, p. 464
- \_\_\_\_\_ Error Analysis, *TWE*, p. 465

#### Homework Assignments

- \_\_\_\_\_ Core: 19–47 odd, 48, 49, 51, 53–60
- \_\_\_\_\_ Enriched: 18–46 even, 48–60
- \_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

- \_\_\_\_\_ Extra Practice, *SE*, p. 763
- \_\_\_\_\_ ⇨ Practice Masters, p. 78
- \_\_\_\_\_ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 86

### 4 ASSESS

- \_\_\_\_\_ Closing Activity, Speaking, *TWE*, p. 466
- \_\_\_\_\_ ⇨ Assessment and Evaluation Masters, Quiz C, p. 240
- \_\_\_\_\_ Extension, Using Data, *TWE*, p. 465
- \_\_\_\_\_ ⇨ Enrichment Masters, p. 78
- \_\_\_\_\_ ⇨ Group Activity Card 9-8

**KEY** *SE* = Student Edition    *TWE* = Teacher's Wraparound Edition    ⇨ = Other Program Components

# 9-10 Lesson Planning Guide (pp. 472-475)



Teacher's Name \_\_\_\_\_ Dates \_\_\_\_\_

Grade \_\_\_\_\_ Class \_\_\_\_\_ M Tu W Th F

Materials/resources needed: \_\_\_\_\_

## Objectives

- \_\_\_\_\_ 9-10: Find percent of increase or decrease.  
\_\_\_\_\_ **South Carolina Math Curriculum Standards, Grade 8: NO I.A.1., NO I.C.1., NO III.A.1., NO III.B.1., NO III.C.1., ALG I.C.1., ALG III.A.1., ALG IV.A.1.**  
\_\_\_\_\_ State/local objectives: \_\_\_\_\_

## NCTM Curriculum Standards: 2, 3, 6-9

### 1 FOCUS

- \_\_\_\_\_ 5-Minute Check, *TWE*, p. 472  
\_\_\_\_\_ ⇨ Transparency 9-10A  
\_\_\_\_\_ Motivating the Lesson, Questioning, *TWE*, p. 472

### 2 TEACH

- \_\_\_\_\_ In-Class Examples, *TWE*, p. 473  
\_\_\_\_\_ ⇨ Transparency 9-10B  
\_\_\_\_\_ Reteaching, Using Flowcharts, *TWE*, p. 473  
\_\_\_\_\_ ⇨ Study Guide Masters, p. 80  
\_\_\_\_\_ Alternative Learning Styles, Kinesthetic, *TWE*, p. 472

### 3 PRACTICE/APPLY

- \_\_\_\_\_ Checking Your Understanding, *SE*, p. 474

#### Homework Assignments

- \_\_\_\_\_ Core: 11-29 odd, 30-34  
\_\_\_\_\_ Enriched: 12-22 even, 23-34  
\_\_\_\_\_ Alternate Assignment: \_\_\_\_\_

- \_\_\_\_\_ Extra Practice, *SE*, p. 764  
\_\_\_\_\_ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 88  
\_\_\_\_\_ ⇨ Practice Masters, p. 80  
\_\_\_\_\_ ⇨ Real-World Applications, 21  
\_\_\_\_\_ ⇨ Tech Prep Applications Masters, p. 18

### 4 ASSESS

- \_\_\_\_\_ Closing Activity, Speaking, *TWE*, p. 475  
\_\_\_\_\_ ⇨ Assessment and Evaluation Masters, Quiz D, p. 240  
\_\_\_\_\_ Extension, Using Data, *TWE*, p. 475  
\_\_\_\_\_ ⇨ Enrichment Masters, p. 80  
\_\_\_\_\_ ⇨ Group Activity Card 9-10

### Review and Assessment Options

- \_\_\_\_\_ Chapter 9 Highlights, *SE*, p. 477  
\_\_\_\_\_ Chapter 9 Study Guide and Assessment, *SE*, pp. 478-480  
\_\_\_\_\_ Chapter 9 Alternative Assessment, *SE*, p. 481  
\_\_\_\_\_ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 89  
\_\_\_\_\_ ⇨ *South Carolina PACT Workbook and Test Preparation, Grade 8*  
\_\_\_\_\_ ⇨ Assessment and Evaluation Masters, Chapter 9 Tests, pp. 225-236; Performance Assessment, p. 237; Standardized Test Practice, p. 241; Cumulative Review, pp. 242-243  
\_\_\_\_\_ Chapter 9 Test, *SE*, p. 782  
\_\_\_\_\_ ⇨ Test and Review Software  
\_\_\_\_\_ ⇨ *MindJogger Videoquizzes*, Chapter 9  
\_\_\_\_\_ ⇨ *State Test Preparation CD-ROM*

**KEY** *SE* = Student Edition    *TWE* = Teacher's Wraparound Edition    ⇨ = Other Program Components