

11 Applying Percents



Chapter Pacing Guide

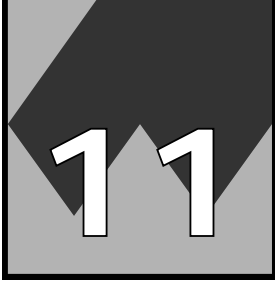
Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

<i>Day (Standard)</i>	<i>Day (Honors)</i>	<i>Lesson</i>	<i>Title</i>
1	1	*Chapter Project	Theme: Radio Don't Turn That Dial
2	2	11-1	Percent and Estimation
3	3	11-1B	THINKING LAB Problem Solving Solve a Simpler Problem
4	4	11-2	Integration: Algebra The Percent Equation
5 & 6		*11-3A	HANDS-ON LAB Cooperative Learning Jelly Bean Statistics
	5	11-3	Integration: Statistics Making Circle Graphs
7	6	11-4	Integration: Statistics Using Statistics to Predict
8 & 9		*11-5A	HANDS-ON LAB Cooperative Learning Percent of Change
	7	11-5	Percent of Change
10	8	11-6	Discount and Sales Tax
11	9 & 10	11-7	Simple Interest
		*11-7B	TECHNOLOGY LAB Spreadsheets Simple Interest
12	11	Review: Study Guide and Assessment	
13	12	Assessment: Chapter Test	

*Optional

Chapter Resources

<p>Meeting Individual Needs <i>Investigations for the Special Education Student, Super Star!</i>, pp. 31-34 <i>Spanish Study Guide and Assessment Study Guide and Practice Workbook</i></p>	<p>Technology <i>Electronic Teacher's Classroom Resources (ETCR)</i> www.glencoe.com/sec/math/mac/mathnet</p>
<p>Interactive Mathematics: Activities and Investigations Units 7 and 16</p>	<p>Applications <i>Family Letters and Activities</i>, pp. 47-48 <i>Spanish Family Letters and Activities</i>, pp. 47-48</p>



Chapter Project (pp. 448-449)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Organize data from a survey and display it graphically.
- _____ Interpret data in terms of percents and make predictions based on these conclusions.
- _____ State/local objectives: _____

<p style="text-align: center;">South Carolina Math Curriculum Standards</p> <p>Grade 7: DAP I.A.1., DAP III.A.1.</p>
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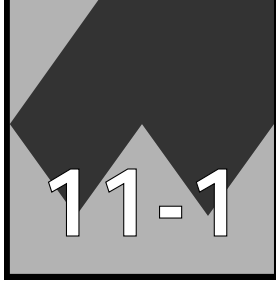
Theme: Radio

- _____ Chapter Project, *SE*, p. 449
- _____ Chapter 11 Notes, *TWE*, p. 448
- _____ Question of the Day, *TWE*, p. 448
- _____ ⇨ *Investigations and Projects Masters*, pp. 57-60

Homework Assignments

- _____ p. 458, Working on the Chapter Project, Exercise 25
- _____ p. 463, Working on the Chapter Project, Exercise 9
- _____ p. 467, Working on the Chapter Project, Exercise 10
- _____ p. 485, Completing the Chapter Project, Alternative Assessment

KEY	SE = Student Edition	TWE = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 450-453)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Estimate percents by using fractions and decimals.
- _____ State/local objectives: _____

NCTM Standards:
1, 6-10

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 450
- _____ ⇨ Transparency 11-1A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 450
- _____ Cross-Curriculum Cue, *TWE*, p. 450

2 TEACH

- _____ ⇨ Transparency 11-1B
- _____ Using the Mini-Lab, *TWE*, p. 451
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 11-1
- _____ In-Class Examples, *TWE*, p. 451
- _____ ⇨ *Study Guide Masters*, p. 81
- _____ Reteaching the Lesson, *TWE*, p. 452
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-1, Interactive Lesson 11-1
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 452

Homework Assignments (pp. 452-453)

_____ Core: 13-37 odd, 38-43 _____ Enriched: 12-34 even, 35-43

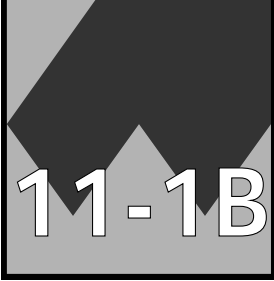
_____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 598
- _____ ⇨ *Practice Masters*, p. 81
- _____ ⇨ *Hands-On Lab Masters*, p. 82
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 91

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 453
- _____ Extending the Lesson, *TWE*, p. 453
- _____ ⇨ *Enrichment Masters*, p. 81

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



Lesson Planning Guide (pp. 454-455)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Solve problems by solving a simpler problem.
- _____ State/local objectives: _____

NCTM Standards: 1, 6-10
South Carolina Math Curriculum Standards Grade 7: ALG III.A.1.

1 FOCUS

- _____ Getting Started, *TWE*, p. 454

2 TEACH

- _____ In-Class Examples, *TWE*, p. 454
- _____ Reteaching the Lesson, *TWE*, p. 454

3 PRACTICE/APPLY

- _____ Check for Understanding, *TWE*, p. 455

Homework Assignments (p. 455)

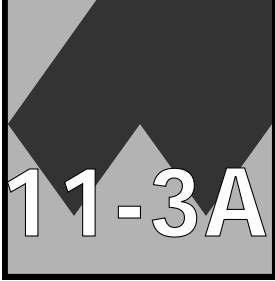
- _____ All: 4-11
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 598
- _____ Mixed Problem Solving, *SE*, pp. 605-606

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 455
- _____ Extending the Lesson, *TWE*, p. 455

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Lesson Planning Guide (p. 459)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Make a circle graph.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 5, 8-10
South Carolina Math Curriculum Standards Grade 7: DAP I.B.1., DAP I.B.2., DAP II.B.1.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 459
- _____ ⇨ *Hands-On Lab Masters*, p. 28: circle graph template
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 11-3A
- _____ ⇨ *Overhead Manipulative Resources*: compass, straightedge

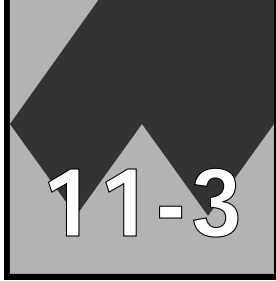
ASSESS

- _____ *TWE*, p. 459
- _____ ⇨ *Hands-On Lab Masters*, p. 65

Class Activity (p. 459)
_____ All: 1-5
_____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 459

KEY	SE = Student Edition	TWE = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 460-463)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Construct and interpret circle graphs.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 5, 6, 8-10
South Carolina Math Curriculum Standards
Grade 7: DAP I.A.1., DAP 1.B.1., DAP I.B.2., DAP II.B.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 460
- _____ ⇨ Transparency 11-3A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 460
- _____ Multiple Learning Styles, Intrapersonal, *TWE*, p. 460

2 TEACH

- _____ ⇨ Transparency 11-3B
- _____ Modeling Mathematics, *TWE*, p. 461
- _____ In-Class Examples, *TWE*, p. 461
- _____ ⇨ *Study Guide Masters*, p. 83
- _____ Reteaching the Lesson, *TWE*, p. 462
- _____ Error Analysis, *TWE*, p. 462
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-3, Extended Activity 11-3
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 462

Homework Assignments (pp. 462-463)	
_____ Core: 5, 7, 10-12	_____ Enriched: 6-8, 10-12
_____ Optional: 9 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 599
- _____ ⇨ *Practice Masters*, p. 83
- _____ ⇨ *Diversity Masters*, p. 24
- _____ Family Activity, *SE*, p. 463
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 93

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 463
- _____ Extending the Lesson, *TWE*, p. 463
- _____ ⇨ *Enrichment Masters*, p. 83

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11-5A

Lesson Planning Guide (p. 468)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Use dot paper to show percent of increase and percent of decrease.
- _____ State/local objectives: _____

NCTM Standards: 1, 6, 8-10

MANAGEMENT

- _____ Getting Started, *TWE*, p. 468
- _____ ⇨ *Hands-On Lab Masters*, p. 12: square dot paper
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 11-5A
- _____ ⇨ *Overhead Manipulative Resources*: rectangular dot paper transparency

ASSESS

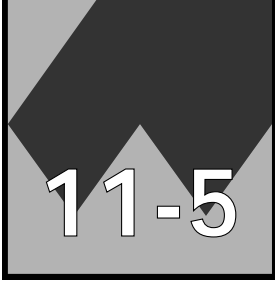
- _____ *TWE*, p. 468
- _____ ⇨ *Hands-On Lab Masters*, p. 66

Class Activity (p. 468)

- | |
|-----------------------------------|
| _____ All: 1-5 |
| _____ Alternate Assignment: _____ |

- _____ Math Journal, *TWE*, p. 468

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Lesson Planning Guide (pp. 469-473)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Find the percent of increase or decrease.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 4-6, 8-10
South Carolina Math Curriculum Standards Grade 7: NO I.D.1., NO III.D.1., ALG II.D.1., MEA II.B.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 469
- _____ ⇨ Transparency 11-5A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 469
- _____ Multiple Learning Styles, Visual/Spatial, *TWE*, p. 469

2 TEACH

- _____ ⇨ Transparency 11-5B
- _____ Using the Mini-Lab, *TWE*, p. 470
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 11-5
- _____ In-Class Examples, *TWE*, p. 470
- _____ ⇨ *Study Guide Masters*, p. 85
- _____ Reteaching the Lesson, *TWE*, p. 471
- _____ Error Analysis, *TWE*, p. 471
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-5, Interactive Lesson 11-5

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 471

Homework Assignments (pp. 471-472)

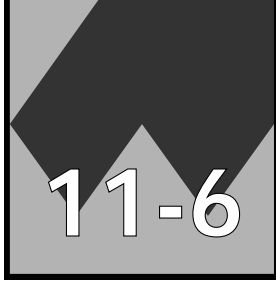
- _____ Core: 9-19 odd, 20-23
- _____ Enriched: 8-16 even, 18-23
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 599
- _____ ⇨ *Practice Masters*, p. 85
- _____ Math in the Media, *SE*, p. 472
- _____ School to Career Activity, *SE*, p. 473
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 95

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 472
- _____ Extending the Lesson, *TWE*, p. 472
- _____ ⇨ *Enrichment Masters*, p. 85

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Lesson Planning Guide (pp. 474-477)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Solve problems involving sales tax and discount.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6, 8
South Carolina Math Curriculum Standards
Grade 7: NO I.D.1., NO III.D.1., ALG II.D.1., ALG III.A.1., MEA II.F.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 474
- _____ ⇨ Transparency 11-6A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 474

2 TEACH

- _____ ⇨ Transparency 11-6B
- _____ Thinking Algebraically, *TWE*, p. 475
- _____ In-Class Examples, *TWE*, p. 475
- _____ ⇨ *Study Guide Masters*, p. 86
- _____ Reteaching the Lesson, *TWE*, p. 475
- _____ Error Analysis, *TWE*, p. 475
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-6

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 475-476

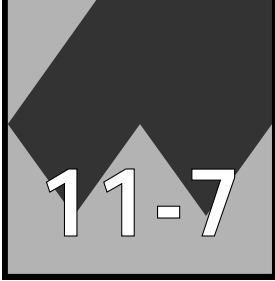
Homework Assignments (pp. 476-477)	
_____ Core: 11-27 odd, 28-32	_____ Enriched: 10-24 even, 26-32
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 600
- _____ ⇨ *Practice Masters*, p. 86
- _____ ⇨ *Technology Masters*, Calculator Activity, p. 47
- _____ ⇨ *Classroom Games*, pp. 31-32
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 96

4 ASSESS

- _____ Let the Games Begin, *SE*, p. 477
- _____ Closing Activity, Writing, *TWE*, p. 477
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz C, p. 296
- _____ Extending the Lesson, *TWE*, p. 477
- _____ ⇨ *Enrichment Masters*, p. 86

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Lesson Planning Guide (pp. 478-480)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Solve problems involving simple interest.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6, 8, 9
South Carolina Math Curriculum Standards Grade 7: ALG I.A.1., ALG III.A.1., MEA II.F.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 478
- _____ ⇨ Transparency 11-7A
- _____ Motivating the Lesson, Communication, *TWE*, p. 478

2 TEACH

- _____ ⇨ Transparency 11-7B
- _____ Reading Mathematics, *TWE*, p. 478
- _____ In-Class Examples, *TWE*, p. 479
- _____ ⇨ *Study Guide Masters*, p. 87
- _____ Reteaching the Lesson, *TWE*, p. 479
- _____ Error Analysis, *TWE*, p. 479
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-7

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 479

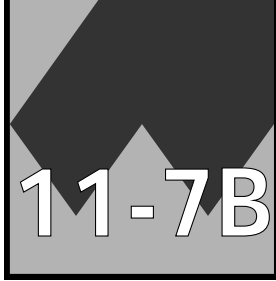
Homework Assignments (pp. 479-480)	
_____ Core: 9-25 odd, 26-29	_____ Enriched: 10-22 even, 23-29
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 600
- _____ ⇨ *Practice Masters*, p. 87
- _____ ⇨ *Technology Masters*, Spreadsheet Activity, p. 48
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 97

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 480
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz D, p. 296
- _____ Extending the Lesson, *TWE*, p. 480
- _____ ⇨ *Enrichment Masters*, p. 87

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Lesson Planning Guide (p. 481)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Use a spreadsheet to find simple interest.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6, 8, 9
South Carolina Math Curriculum Standards Grade 7: ALG I.A.1., ALG III.A.1., MEA II.F.1.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 481
- _____ Using Calculators, *TWE*, p. 481

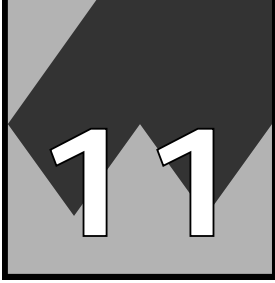
ASSESS

- _____ *TWE*, p. 481

Class Activity (p. 481)
<ul style="list-style-type: none"> _____ All: 1-5 _____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 481

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Review and Assessment (pp. 482-487)



Teacher's Name _____ Dates _____

Grade _____ Class _____

Review M Tu W Th F
Testing M Tu W Th F



- _____ Study Guide and Assessment, *SE*, pp. 482-485
- _____ Standardized Test Practice, *SE*, pp. 486-487
- _____ Chapter Test, *SE*, p. 617

⇔ *Assessment and Evaluation Masters* (pp. 281-299)

Multiple-Choice Tests

Free-Response Tests

- | | |
|---|---------------------------------------|
| _____ Form 1A, 1B, or 1C, pp. 281-286 | _____ Form 2A, 2B, or 2C, pp. 287-292 |
| _____ Standardized Test Practice, pp. 297-298 | _____ Performance Assessment, p. 293 |
| | _____ Cumulative Review, p. 299 |

- _____ ⇔ *MindJogger Videoquizzes*, Chapter 11
- _____ ⇔ *Test and Review Software*
- _____ ⇔ *CD-ROM Assessment Game*
- _____ ⇔ *State Test Preparation CD-ROM*
- _____ ⇔  *South Carolina Parent and Student Study Guide Workbook*, p. 98
- _____ ⇔  *South Carolina PACT Workbook and Test Preparation, Grade 7*

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