

11 Applying Percents



Chapter Pacing Guide

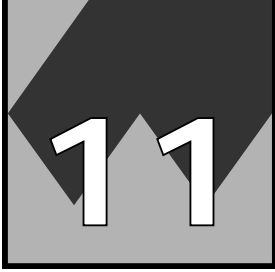
Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

| <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</i> <i>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.

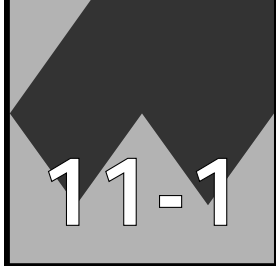
Theme: Radio

- _____ 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



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.

| |
|---|
| NCTM Standards: 1, 6-10 |
| Georgia Quality Core Curriculum: Grade 7: 1, 40 |

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)

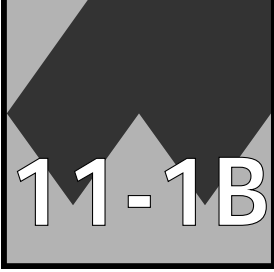
- _____ Core: 13-37 odd, 38-43
- _____ Enriched: 12-34 even, 35-43
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 598
- _____ ⇨ *Practice Masters*, p. 81
- _____ ⇨ *Hands-On Lab Masters*, p. 82
- _____ ⇨ *Georgia 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

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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.

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

| |
|--|
| NCTM Standards: 1, 6-10 |
| Georgia Quality Core Curriculum: Grade 7: 1, 2, 38, 43 |

Homework Assignments (p. 455)

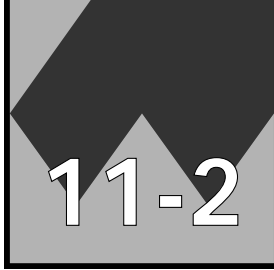
_____ All: 4-11
_____ Alternate Assignment: _____

_____ 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 (pp. 456-458)



Teacher's Name _____ Dates _____
Grade _____ Class _____ M Tu W Th F

Objectives

_____ Solve problems by using the percent equation.

| |
|---|
| NCTM Standards: 1, 2, 6-10 |
| Georgia Quality Core Curriculum: Grade 7: 1, 38, 40 |

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 456
- _____ ⇨ Transparency 11-2A
- _____ Motivating the Lesson, Communication, *TWE*, p. 456

2 TEACH

- _____ ⇨ Transparency 11-2B
- _____ Using Calculators, *TWE*, p. 457
- _____ In-Class Examples, *TWE*, p. 457
- _____ ⇨ *Study Guide Masters*, p. 82
- _____ Reteaching the Lesson, *TWE*, p. 457
- _____ Error Analysis, *TWE*, p. 457
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-2

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 457

Homework Assignments (p. 458)

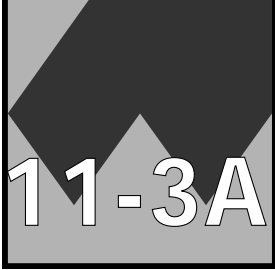
- _____ Core: 9-23 odd, 26-29 _____ Enriched: 10-22 even, 23, 24, 26-29
- _____ Optional: 25 (Working on the Chapter Project)
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 598
- _____ ⇨ *Practice Masters*, p. 82
- _____ ⇨ *School to Career Masters*, p. 24
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 85-88
- _____ ⇨ *Georgia Parent and Student Study Guide Workbook*, p. 92

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 458
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz A, p. 295
- _____ Extending the Lesson, *TWE*, p. 458
- _____ ⇨ *Enrichment Masters*, p. 82

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



Lesson Planning Guide (p. 459)



Teacher's Name _____ Dates _____
Grade _____ Class _____ M Tu W Th F

Objectives

_____ Make a circle graph.

| |
|---|
| NCTM Standards: 1, 2, 5, 8-10 |
| Georgia Quality Core Curriculum: Grade 7: 1, 2, 41, 43 |

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

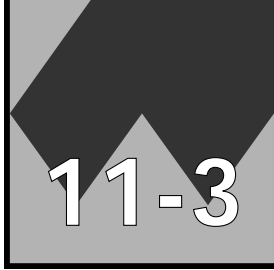
ASSESS

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

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

_____ Math Journal, *TWE*, p. 459

| |
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| 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.

| |
|---|
| NCTM Standards: 1, 2, 5, 6, 8-10 |
| Georgia Quality Core Curriculum: Grade 7: 1, 3, 4, 40, 41, 43 |

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

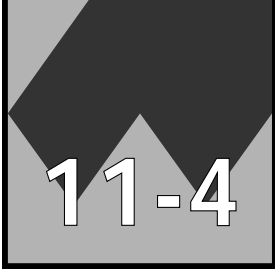
| | |
|--|----------------------------|
| Homework Assignments (pp. 462-463) | |
| _____ Core: 5, 7, 10-12 | _____ Enriched: 6-8, 10-12 |
| _____ Optional: 9 (Working on the Chapter Project) | |
| _____ Alternate Assignment: _____ | |

- _____ Extra Practice, *SE*, p. 599
- _____ ⇨ *Diversity Masters*, p. 24
- _____ Family Activity, *SE*, p. 463
- _____ ⇨ *Georgia 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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Lesson Planning Guide (pp. 464-467)



Teacher's Name _____ Dates _____
Grade _____ Class _____ M Tu W Th F

Objectives

_____ Predict actions of a larger group by using a sample.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 464
- _____ ⇨ Transparency 11-4A
- _____ Motivating the Lesson, Communication, *TWE*, p. 464
- _____ Multiple Learning Styles, Naturalist, *TWE*, p. 464

| |
|---|
| NCTM Standards: 1, 2, 5-9 |
| Georgia Quality Core Curriculum: Grade 7: 1, 40, 43 |

2 TEACH


- _____ ⇨ Transparency 11-4B
- _____ Reading Mathematics, *TWE*, p. 465
- _____ In-Class Examples, *TWE*, p. 465
- _____ ⇨ *Study Guide Masters*, p. 84
- _____ Reteaching the Lesson, *TWE*, p. 466
- _____ ⇨ *CD-ROM Program*, Resource Lesson 11-4

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 465

Homework Assignments (pp. 465-466)

- _____ Core: 5-9 odd, 11-13 _____ Enriched: 4, 6, 7-9, 11-13
- _____ Optional: 10 (Working on the Chapter Project)
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 599
- _____ ⇨ *Practice Masters*, p. 84
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 45-48
- _____ ⇨  *Georgia Parent and Student Study Guide Workbook*, p. 94

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 467
- _____ ⇨ *Assessment and Evaluation Masters*, Mid-Chapter Test, p. 294
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz B, p. 295
- _____ Extending the Lesson, *TWE*, p. 467
- _____ ⇨ *Enrichment Masters*, p. 84
- _____ Mid-Chapter Self Test, *SE*, p. 467

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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.

| |
|--|
| NCTM Standards: 1, 6, 8-10 |
| Georgia Quality Core Curriculum: Grade 7: 1, 2 |

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

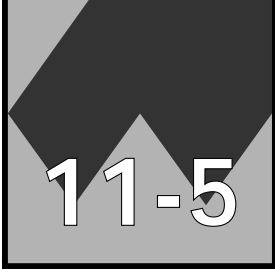
ASSESS

- _____ *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.

| |
|--|
| NCTM Standards: 1, 2, 4-6, 8-10 |
| Georgia Quality Core Curriculum: Grade 7: 1, 3, 38, 40 |

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)

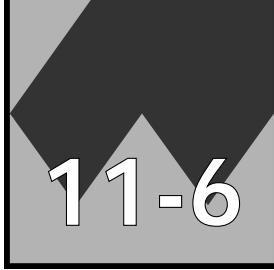
- _____ Core: 9-19 odd, 20-23 _____ Enriched: 8-16 even, 18-23
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 599
- _____ ⇨ *Practice Masters*, p. 85
- _____ Math in the Media, *SE*, p. 472
- _____ School to Career Activity, *SE*, p. 473
- _____ ⇨  *Georgia 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.

| |
|---|
| NCTM Standards: 1, 2, 6, 8 |
| Georgia Quality Core Curriculum: Grade 7: 1, 38, 40 |

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

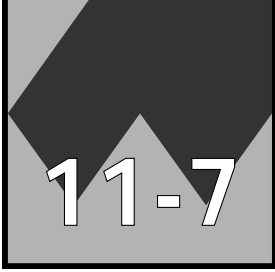
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|---|-----------------------------------|
| Homework Assignments (pp. 476-477) | |
| _____ Core: 11-27 odd, 28-32 | _____ Enriched: 10-24 even, 26-32 |
| _____ Alternate Assignment: _____ | |

- _____ Extra Practice, *SE*, p. 600
- _____ ⇨ *Practice Masters*, p. 86
- _____ ⇨ *Technology Masters*, Calculator Activity, p. 47
- _____ ⇨ *Classroom Games*, pp. 31-32
- _____ ⇨ *Georgia 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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| KEY <i>SE</i> = Student Edition <i>TWE</i> = Teacher's Wraparound Edition ⇨ = Other Program Components |
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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.

| |
|---|
| NCTM Standards: 1, 2, 6, 8, 9 |
| Georgia Quality Core Curriculum: Grade 7: 1, 25, 38, 40 |

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)

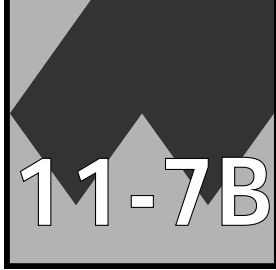
- _____ Core: 9-25 odd, 26-29 _____ Enriched: 10-22 even, 23-29
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 600
- _____ ⇨ *Practice Masters*, p. 87
- _____ ⇨ *Technology Masters*, Spreadsheet Activity, p. 48
- _____ ⇨ *Georgia 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.

| |
|--|
| NCTM Standards: 1, 2, 6, 8, 9 |
| Georgia Quality Core Curriculum: Grade 7: 1, 3, 4, 38, 40, 41, 43 |

MANAGEMENT

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

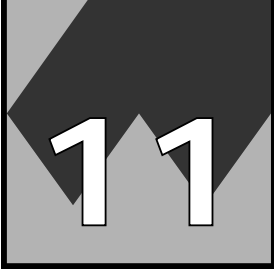
ASSESS

_____ *TWE*, p. 481

| |
|---|
| Class Activity (p. 481) |
| _____ 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*
- _____ ⇔ *Georgia Parent and Student Study Guide Workbook*, p. 98
- _____ ⇔ *Georgia Stanford 9 Practice and Sample Test Workbook*

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