

3 Using Proportion and Percent



Chapter Pacing Guide

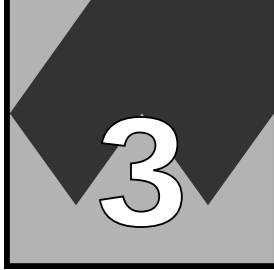
Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

<i>Day (Standard)</i>	<i>Day (Honors)</i>	<i>Lesson</i>	<i>Title</i>
1	1	*Chapter Project	Theme: Travel Pack Your Bags
2		3-1	Ratios and Rates
3	2	3-2	Ratios and Percents
4	3	3-3	Solving Proportions
5 & 6	4 & 5	3-4	Fractions, Decimals, and Percents
		*3-4B	<small>HANDS-ON LAB</small> Cooperative Learning The Golden Ratio
7	6	3-5	Finding Percents
8	7	3-6A	<small>THINKING LAB</small> Problem Solving Reasonable Answers
9	8	3-6	Percent and Estimation
10	9	Review: Study Guide and Assessment	
11	10	Assessment: Chapter Test	

* *Optional*

Chapter Resources

<p>Meeting Individual Needs <i>Investigations for the Special Education Student, Park It!</i>, pp. 21-28 <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 9</p>	<p>Applications <i>Family Letters and Activities</i>, pp. 57-58 <i>Spanish Family Letters and Activities</i>, pp. 57-58</p>



Chapter Project (pp. 102-103)



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

Objectives

- _____ Learn to convert exchange rates to fractions, decimals, and percents.
- _____ Estimate the amount of money needed for travel.
- _____ Understand how to sketch circle graphs.

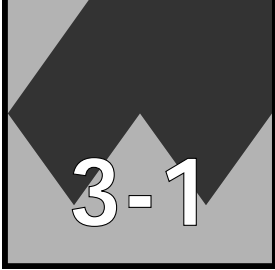
Theme: Travel

- _____ Chapter Project, *SE*, p. 103
- _____ Chapter 3 Notes, *TWE*, p. 102
- _____ Question of the Day, *TWE*, p. 102
- _____ ⇨ *Investigations and Projects Masters*, pp. 25-28

Homework Assignments

- _____ p. 106, Working on the Chapter Project, Exercise 28
- _____ p. 113, Working on the Chapter Project, Exercise 29
- _____ p. 129, Working on the Chapter Project, Exercise 35
- _____ p. 133, Completing the Chapter Project, Alternative Assessment

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



Lesson Planning Guide (pp. 104-106)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Express ratios as fractions in simplest form and determine unit rates.

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

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 104
- _____ ⇨ Transparency 3-1A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 104

2 TEACH

- _____ ⇨ Transparency 3-1B
- _____ Multiple Learning Styles, Intrapersonal, *TWE*, p. 104
- _____ Thinking Algebraically, *TWE*, p. 104
- _____ In-Class Examples, *TWE*, p. 105
- _____ ⇨ *Study Guide Masters*, p. 20
- _____ Reteaching the Lesson, *TWE*, p. 105
- _____ Error Analysis, *TWE*, p. 105
- _____ ⇨ *Transition Booklet*, pp. 11-12, 15-16, 29-30
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-1, Interactive Lesson 3-1
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 105-106

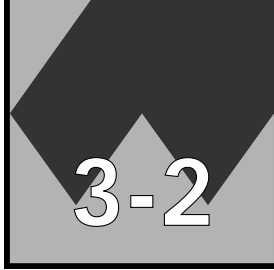
Homework Assignments (p. 106)	
_____ Core: 11-27 odd, 29-33	_____ Enriched: 10-24 even, 26, 27, 29-33
_____ Optional: 28 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 612
- _____ ⇨ *Practice Masters*, p. 20
- _____ ⇨ *Technology Masters*, Graphing Calculator Activity, p. 58
- _____ ⇨ *Georgia Parent and Student Study Guide Workbook*, p. 22

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 106
- _____ Extending the Lesson, *TWE*, p. 106
- _____ ⇨ *Enrichment Masters*, p. 20

KEY	<i>SE</i> = Student Edition	<i>TWE</i> = Teacher's Wraparound Edition	⇨ = Other Program Components
-----	-----------------------------	---	------------------------------



Lesson Planning Guide (pp. 107-110)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Express ratios as percents and vice versa.

NCTM Standards: 1, 3, 5-10
Georgia Quality Core Curriculum: Grade 8: 1, 18, 30, 41, 42

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 107
- _____ ⇨ Transparency 3-2A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 107
- _____ Multiple Learning Styles, Visual/Spatial, *TWE*, p. 107
- _____ Cross-Curriculum Cue, *TWE*, p. 108


2 TEACH

- _____ ⇨ Transparency 3-2B
- _____ Using the Mini-Lab, *TWE*, p. 108
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 3-2
- _____ In-Class Examples, *TWE*, pp. 108-109
- _____ ⇨ *Study Guide Masters*, p. 21
- _____ Reteaching the Lesson, *TWE*, p. 109
- _____ ⇨ *Transition Booklet*, pp. 13-14
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-2

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 109

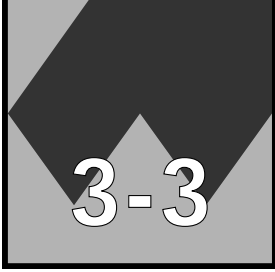
Homework Assignments (pp. 109-110)	
_____ Core: 11-33 odd, 35-39	_____ Enriched: 12-32 even, 33-39
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 612
- _____ ⇨ *Practice Masters*, p. 21
- _____ ⇨  *Georgia Parent and Student Study Guide Workbook*, p. 23

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 110
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz A, p. 71
- _____ Extending the Lesson, *TWE*, p. 110
- _____ ⇨ *Enrichment Masters*, p. 21

KEY	<i>SE</i> = Student Edition	<i>TWE</i> = Teacher's Wraparound Edition	⇨ = Other Program Components
------------	-----------------------------	---	------------------------------



Lesson Planning Guide (pp. 111-113)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Solve proportions.

NCTM Standards: 1, 2, 6-10
Georgia Quality Core Curriculum: Grade 8: 1, 7, 10, 12, 18, 41

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 111
- _____ ⇨ Transparency 3-3A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 111

2 TEACH

- _____ ⇨ Transparency 3-3B
- _____ Reading Mathematics, *TWE*, p. 111
- _____ In-Class Examples, *TWE*, p. 112
- _____ ⇨ *Study Guide Masters*, p. 22
- _____ Reteaching the Lesson, *TWE*, p. 112
- _____ Error Analysis, *TWE*, p. 112
- _____ ⇨ *Transition Booklet*, pp. 9-10
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-3, Interactive Lesson 3-3

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 112-113

Homework Assignments (p. 113)

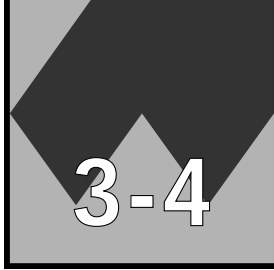
- _____ Core: 11-27odd, 30-34 _____ Enriched: 12-26 even, 27, 28, 30-34
- _____ Optional: 29 (Working on the Chapter Project)
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 612
- _____ ⇨ *Practice Masters*, p. 22
- _____ ⇨ *Diversity Masters*, p. 29
- _____ ⇨ *School to Career Masters*, p. 29
- _____ ⇨ *Technology Masters*, Calculator Activity, p. 57
- _____ ⇨ *Georgia Parent and Student Study Guide Workbook*, p. 24

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 113
- _____ ⇨ *Assessment and Evaluation Masters*, Mid-Chapter Test, p. 70
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz B, p. 71
- _____ Extending the Lesson, *TWE*, p. 113
- _____ ⇨ *Enrichment Masters*, p. 22

KEY <i>SE</i> = Student Edition <i>TWE</i> = Teacher's Wraparound Edition ⇨ = Other Program Components
--



Lesson Planning Guide (pp. 114-117)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Express percents as fractions and decimals and vice versa.

NCTM Standards: 1, 2, 6-10
Georgia Quality Core Curriculum: Grade 8: 1, 3, 18, 30, 38, 41, 45

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 114
- _____ ⇨ Transparency 3-4A
- _____ Motivating the Lesson, Communication, *TWE*, p. 114
- _____ Multiple Learning Styles, Logical, *TWE*, p. 114

2 TEACH

- _____ Transparency 3-4B
- _____ Using the Mini-Lab, *TWE*, p. 115
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 3-4
- _____ In-Class Examples, *TWE*, pp. 115, 116
- _____ ⇨ *Study Guide Masters*, p. 23
- _____ Reteaching the Lesson, *TWE*, p. 116
- _____ Error Analysis, *TWE*, p. 116
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-4

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 116

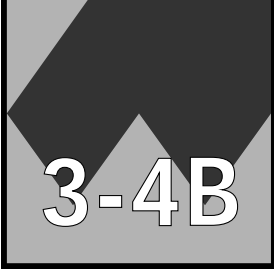
Homework Assignments (pp. 116-117)	
_____ Core: 15-47 odd, 48-54	_____ Enriched: 14-44 even, 46-54
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 613
- _____ ⇨ *Practice Masters*, p. 23
- _____ ⇨ *Hands-On Lab Masters*, p. 70
- _____ ⇨ *Classroom Games*, pp. 7-9
- _____ Family Activity, *SE*, p. 116
- _____ ⇨ *Georgia Parent and Student Study Guide Workbook*, p. 25

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 117
- _____ Extending the Lesson, *TWE*, p. 117
- _____ ⇨ *Enrichment Masters*, p. 23
- _____ Mid-Chapter Self Test, *SE*, p. 117

KEY <i>SE</i> = Student Edition <i>TWE</i> = Teacher's Wraparound Edition ⇨ = Other Program Components
--



Lesson Planning Guide (pp. 118-119)



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

Objectives

_____ Find the value of the golden ratio.

NCTM Standards: 1-4, 6-10
Georgia Quality Core Curriculum: Grade 8: 1, 2, 3, 45

MANAGEMENT

- _____ Getting Started, *TWE*, p. 118
- _____ ⇨ *Hands-On Lab Masters*, p. 10: grid paper
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 3-4B
- _____ ⇨ *Overhead Manipulative Resources*: centimeter grid

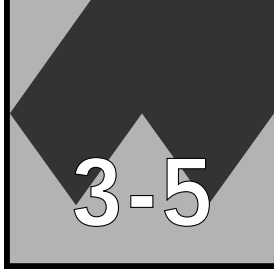
ASSESS

- _____ *TWE*, p. 119
- _____ ⇨ *Hands-On Lab Masters*, p. 42

Class Activity (pp. 118-119)
_____ All: 1-7
_____ Alternate Assignment: _____

_____ Math Journal, *TWE*, p. 119

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



Lesson Planning Guide (pp. 120-123)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Compute mentally with percents.

NCTM Standards: 1, 3, 5-10
Georgia Quality Core Curriculum: Grade 8: 1, 2, 18, 30, 33, 40, 45

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 120
- _____ ⇨ Transparency 3-5A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 120

2 TEACH

- _____ Transparency 3-5B
- _____ Reading Mathematics, *TWE*, p. 120
- _____ In-Class Examples, *TWE*, p. 121
- _____ ⇨ *Study Guide Masters*, p. 24
- _____ Reteaching the Lesson, *TWE*, p. 121
- _____ Error Analysis, *TWE*, p. 121
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-5

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 121-122

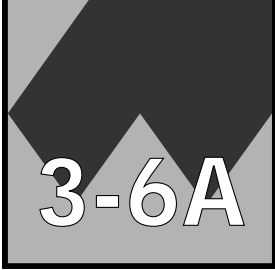
Homework Assignments (p. 122)	
_____ Core: 11-29 odd, 30-34	_____ Enriched: 10-26 even, 28-34
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 613
- _____ ⇨ *Practice Masters*, p. 24
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 53-56
- _____ ⇨ *Georgia Parent and Student Study Guide Workbook*, p. 26

4 ASSESS

- _____ Let the Games Begin, *SE*, p. 123
- _____ Closing Activity, Writing, *TWE*, p. 122
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz C, p. 72
- _____ Extending the Lesson, *TWE*, p. 122
- _____ ⇨ *Enrichment Masters*, p. 24

KEY <i>SE</i> = Student Edition <i>TWE</i> = Teacher's Wraparound Edition ⇨ = Other Program Components
--



Lesson Planning Guide (pp. 124-125)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Determine whether answers to problems are reasonable.

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

1 FOCUS

_____ Getting Started, *TWE*, p. 124

2 TEACH

_____ In-Class Example, *TWE*, p. 124

_____ Reteaching the Lesson, *TWE*, p. 124

3 PRACTICE/APPLY

_____ Check for Understanding, *TWE*, p. 125

Homework Assignments (p. 125)

_____ All: 4-14

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 613

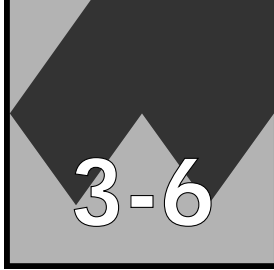
_____ Mixed Problem Solving, *SE*, pp. 645-646

4 ASSESS

_____ Closing Activity, Writing, *TWE*, p. 125

_____ Extending the Lesson, *TWE*, p. 125

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



Lesson Planning Guide (pp. 126-129)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Estimate by using equivalent fractions, decimals, and percents

NCTM Standards: 1, 3-10
Georgia Quality Core Curriculum: Grade 8: 1, 3, 4, 42, 45

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 126
- _____ ⇨ Transparency 3-6A
- _____ Motivating the Lesson, Communication, *TWE*, p. 126

2 TEACH

- _____ Transparency 3-6B
- _____ Using the Mini-Lab, *TWE*, p. 127
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 3-6
- _____ In-Class Examples, *TWE*, p. 127
- _____ ⇨ *Study Guide Masters*, p. 25
- _____ Reteaching the Lesson, *TWE*, p. 128
- _____ Error Analysis, *TWE*, p. 128
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-6, Interactive Lesson 3-6

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 128

Homework Assignments (pp. 128-129)	
_____ Core: 11-33 odd, 36-40	_____ Enriched: 12-30 even, 32-34, 36-40
_____ Optional: 35 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 614
- _____ ⇨ *Practice Masters*, p. 25
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 85-88
- _____ ⇨ *Georgia Parent and Student Study Guide Workbook*, p. 27

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 129
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz D, p. 129
- _____ Extending the Lesson, *TWE*, p. 129
- _____ ⇨ *Enrichment Masters*, p. 25

KEY	<i>SE</i> = Student Edition	<i>TWE</i> = Teacher's Wraparound Edition	⇨ = Other Program Components
------------	-----------------------------	---	------------------------------



Review and Assessment (pp. 130-137)



Teacher's Name _____ Dates _____

Grade _____ Class _____

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

- _____ Study Guide and Assessment, *SE*, pp. 130-133
- _____ Standardized Test Practice, *SE*, pp. 134-135
- _____ Chapter Test, *SE*, p. 649



⇔ **Assessment and Evaluation Masters (pp. 57-75)**

Multiple-Choice Tests

- _____ Form 1A, 1B, or 1C, pp. 57-62
- _____ Standardized Test Practice, pp. 73-74

Free-Response Tests

- _____ Form 2A, 2B, or 2C, pp. 63-68
- _____ Performance Assessment, p. 69
- _____ Cumulative Review, p. 75

- _____ ⇔ *MindJogger Videoquizzes*, Chapter 3
- _____ ⇔ *Test and Review Software*
- _____ ⇔ *CD-ROM Assessment Game*
- _____ ⇔ *State Test Preparation CD-ROM*
- _____ ⇔  *Georgia Parent and Student Study Guide Workbook*, p. 28
- _____ ⇔  *Georgia Stanford 9 Practice and Sample Test Workbook*

Interdisciplinary Investigation, SE, pp. 136-137

- _____ ⇔ *Interdisciplinary Investigation, TWE*, pp. 136-137
- _____ ⇔ *Investigations and Projects Masters*, pp. 1-4

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