

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</i>, Park It!, pp. 21-28 <i>Spanish Study Guide and Assessment</i> <i>Study Guide and Practice Workbook</i></p>	<p>Technology <i>Electronic Teacher's Classroom</i> <i>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.
- _____ State/local objectives: _____

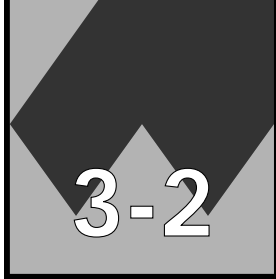
Theme: Travel

- _____ 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. 107-110)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Express ratios as percents and vice versa.
- _____ State/local objectives: _____

NCTM Standards:
1, 3, 5-10

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

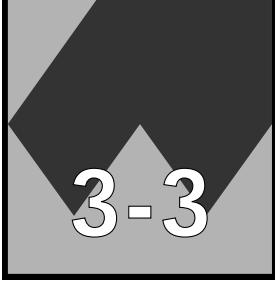
_____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 612
- _____ ⇨ *Practice Masters*, p. 21
- _____ ⇨ *South Carolina 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 *SE* = Student Edition *TWE* = 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.
- _____ State/local objectives: _____

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

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

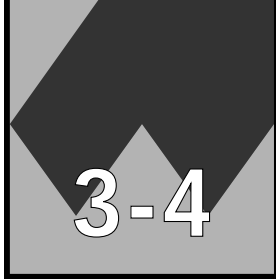
Homework Assignments (p. 113)	
_____ Core: 11-27 odd, 30-34	_____ Enriched: 12-26 even, 27, 28, 30-34
_____ Optional: 29 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ 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
- _____ ⇨ *South Carolina 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

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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.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 6-10
South Carolina Math Curriculum Standards Grade 8: NO III.D.1., NO III.D.2.

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

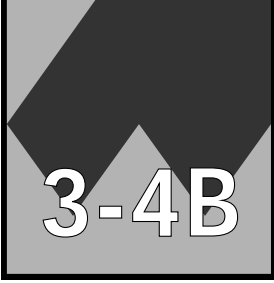
Homework Assignments (pp. 116-117)	
_____ Core: 15-47 odd, 48-54	_____ Enriched: 14-44 even, 46-54
_____ Alternate Assignment: _____	

- _____ 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
- _____ ⇨ *South Carolina 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

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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.
- _____ State/local objectives: _____

NCTM Standards:
1-4, 6-10

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

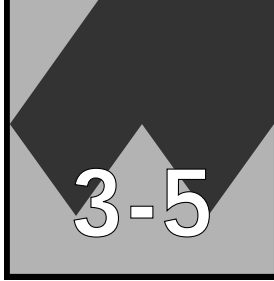
Class Activity (pp. 118-119)

_____ All: 1-7

_____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 119

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Lesson Planning Guide (pp. 120-123)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Compute mentally with percents.
- _____ State/local objectives: _____

NCTM Standards: 1, 3, 5-10
South Carolina Math Curriculum Standards Grade 8: NO I.A.1., NO III.A.1.

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)

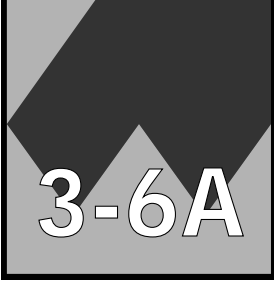
- | | |
|-----------------------------------|-----------------------------------|
| _____ Core: 11-29 odd, 30-34 | _____ Enriched: 10-26 even, 28-34 |
| _____ Alternate Assignment: _____ | |

- _____ Extra Practice, *SE*, p. 613
- _____ ⇨ *Practice Masters*, p. 24
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 53-56
- _____ ⇨ *South Carolina 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

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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.
- _____ State/local objectives: _____

NCTM Standards: 1, 6-9
South Carolina Math Curriculum Standards Grade 8: NO I.A.1., NO III.A.1., NO III.C.1.

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

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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

Free-Response Tests

- | | |
|---|-------------------------------------|
| _____ Form 1A, 1B, or 1C, pp. 57-62 | _____ Form 2A, 2B, or 2C, pp. 63-68 |
| _____ Standardized Test Practice, pp. 73-74 | _____ 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*
- _____ ⇔  *South Carolina Parent and Student Study Guide Workbook*, p. 28
- _____ ⇔  *South Carolina PACT Workbook and Test Preparation, Grade 8*

Interdisciplinary Investigation, SE, pp. 136-137

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

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