

4 Statistics: Analyzing Data



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.

Day (Standard)	Day (Honors)	Lesson	Title
1	1	*Chapter Project	Theme: Museums Oldies But Goodies!
2		4-1A	THINKING LAB Problem Solving Make a Table
3	2 & 3	4-1	Bar Graphs and Histograms
		*4-1B	TECHNOLOGY LAB Graphing Calculators Histograms
4	4	4-2	Circle Graphs
5 & 6	5	4-3	Line Plots
		*4-3B	HANDS-ON LAB Cooperative Learning Maps and Statistics
7	6	4-4	Measures of Central Tendency
		*4-4B	TECHNOLOGY LAB Spreadsheets Finding a Mean
8	7 & 8	4-5	Measures of Variation
		*4-5B	TECHNOLOGY LAB Graphing Calculators Box-and-Whisker Plots
9	9	4-6	Integration: Algebra Scatter Plots
10	10	4-7	Choosing an Appropriate Display
11	11	4-8	Misleading Graphs and Statistics
12	12	Review: Study Guide and Assessment	
13	13	Assessment: Chapter Test	

* *Optional*

Chapter Resources

<p>Meeting Individual Needs <i>Investigations for the Special Education Student</i>, Commercial Success, pp. 3-5 <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 Unit 8</p>	<p>Applications <i>Family Letters and Activities</i>, pp. 59-60 <i>Spanish Family Letters and Activities</i>, pp. 59-60</p>



Chapter Project (pp. 138-139)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Be able to see the difference in the numbers of visitors that visit each art museum.
- _____ Gain an understanding of how to track data and how to graph the results of their research.
- _____ State/local objectives: _____

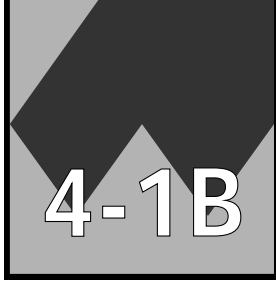
Theme: Museums

- _____ Chapter Project, *SE*, p. 139
- _____ Chapter 4 Notes, *TWE*, p. 138
- _____ Question of the Day, *TWE*, p. 138
- _____ ⇨ *Investigations and Projects Masters*, pp. 29-32

Homework Assignments

- _____ p. 146, Working on the Chapter Project, Exercise 11
- _____ p. 161, Working on the Chapter Project, Exercise 22
- _____ p. 173, Working on the Chapter Project, Exercise 21
- _____ p. 181, Completing the Chapter Project, Alternative Assessment

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



Lesson Planning Guide (p. 147)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Use a graphing calculator to make a histogram for a set of data.

_____ State/local objectives: _____

NCTM Standards: 1, 2, 5-9
South Carolina Math Curriculum Standards
Grade 8: DAP I.B.3.

MANAGEMENT

_____ Getting Started, *TWE*, p. 147

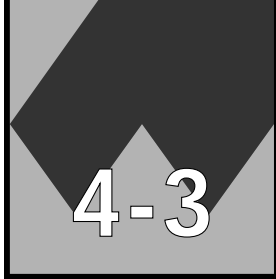
ASSESS

_____ *TWE*, p. 147

<i>Class Activity (p. 147)</i>
_____ All: 1-3
_____ Alternate Assignment: _____

_____ Math Journal, *TWE*, p. 147

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



Lesson Planning Guide (pp. 153-155)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Construct and interpret line plots.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 5-10
South Carolina Math Curriculum Standards Grade 8: DAP I.B.3.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 153
- _____ Transparency 4-3A
- _____ Motivating the Lesson, Communication, *TWE*, p. 153
- _____ Multiple Learning Styles, Verbal/Linguistic, *TWE*, p. 153

2 TEACH

- _____ ⇔ Transparency 4-3B
- _____ Using the Mini-Lab, *TWE*, p. 153
- _____ ⇔ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 4-3
- _____ In-Class Example, *TWE*, p. 154
- _____ ⇔ *Study Guide Masters*, p. 28
- _____ Reteaching the Lesson, *TWE*, p. 154
- _____ ⇔ *CD-ROM Program*, Resource Lesson 4-3, Interactive Lesson 4-3
- _____ ⇔ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 154

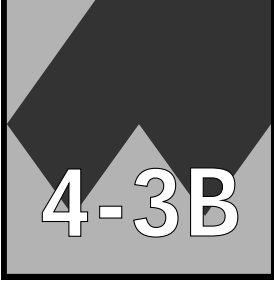
Homework Assignments (p. 155)	
_____ Core: 5-9 odd, 10-13	_____ Enriched: 6, 8-13
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 615
- _____ ⇔ *Practice Masters*, p. 28
- _____ ⇔ *South Carolina Parent and Student Study Guide Workbook*, p. 31

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 155
- _____ Extending the Lesson, *TWE*, p. 155
- _____ ⇔ *Enrichment Masters*, p. 28

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Lesson Planning Guide (pp. 156-157)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Use maps to display statistical data.
- _____ State/local objectives: _____

NCTM Standards:
2, 5-10

MANAGEMENT

- _____ Getting Started, *TWE*, p. 156

ASSESS

- _____ *TWE*, p. 157
- _____ ⇔ *Hands-On Lab Masters*, pp. 43-44

Class Activity (p. 157)

- _____ All: 1-7
- _____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 157

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Lesson Planning Guide (p. 162)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Use a spreadsheet to find the mean of a set of data.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 5-9
South Carolina Math Curriculum Standards Grade 8: NO III.A.1., DAP II.A.1.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 162

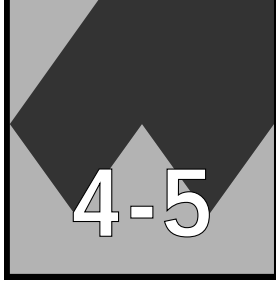
ASSESS

- _____ *TWE*, p. 162

Class Activity (p. 162)
_____ All: 1-4
_____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 162

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Lesson Planning Guide (pp. 163-166)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Find the range and quartiles of a set of data.
- _____ State/local objectives: _____

NCTM Standards: 1, 5-9
South Carolina Math Curriculum Standards
Grade 8: DAP II.A.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 163
- _____ ⇨ Transparency 4-5A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 163
- _____ Multiple Learning Styles, Verbal/Linguistic, *TWE*, p. 163

2 TEACH

- _____ ⇨ Transparency 4-5B
- _____ Modeling Mathematics, *TWE*, p. 164
- _____ In-Class Examples, *TWE*, p. 164
- _____ ⇨ *Study Guide Masters*, p. 30
- _____ Reteaching the Lesson, *TWE*, p. 164
- _____ Error Analysis, *TWE*, p. 164
- _____ ⇨ *CD-ROM Program*, Resource Lesson 4-5

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 165

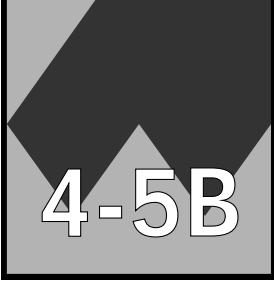
Homework Assignments (pp. 165-166)	
_____ Core: 7-17 odd, 19, 20	_____ Enriched: 8-16 even, 17-20
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 616
- _____ ⇨ *Practice Masters*, p. 30
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 33

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 166
- _____ Extending the Lesson, *TWE*, p. 166
- _____ ⇨ *Enrichment Masters*, p. 30
- _____ Mid-Chapter Self Test, *SE*, p. 166

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Lesson Planning Guide (p. 167)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Use a graphing calculator to construct and interpret box-and-whisker plots.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 5-9
South Carolina Math Curriculum Standards Grade 8: DAP I.B.3.

MANAGEMENT

- _____ Getting Started, *TWE*, p. 167
- _____ In-Class Example, *TWE*, p. 167

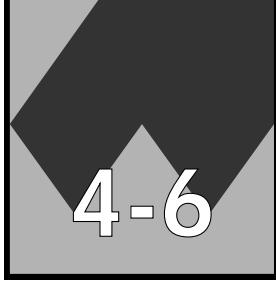
ASSESS

- _____ *TWE*, p. 167

<i>Class Activity (p. 167)</i>
_____ All: 1-3
_____ Alternate Assignment: _____

- _____ Math Journal, *TWE*, p. 167

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Lesson Planning Guide (pp. 168-170)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Construct and interpret scatter plots.
- _____ State/local objectives: _____

NCTM Standards: 1, 2, 5-10
South Carolina Math Curriculum Standards
Grade 8: DAP I.B.2., DAP I.B.3., DAP III.B.1.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 168
- _____ ⇨ Transparency 4-6A
- _____ Motivating the Lesson, Communication, *TWE*, p. 168

2 TEACH

- _____ Transparency 4-6B
- _____ Using the Mini-Lab, *TWE*, p. 168
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 4-6
- _____ In-Class Examples, *TWE*, p. 169
- _____ ⇨ *Study Guide Masters*, p. 31
- _____ Reteaching the Lesson, *TWE*, p. 169
- _____ ⇨ *CD-ROM Program*, Resource Lesson 4-6
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 169

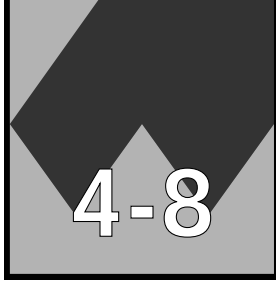
Homework Assignments (p. 170)	
_____ Core: 9-21 odd, 23-26	_____ Enriched: 10-20 even, 21-26
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 616
- _____ ⇨ *Practice Masters*, p. 31
- _____ ⇨ *Technology Masters*, Graphing Calculator Activity, p. 60
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 57-60
- _____ ⇨ *South Carolina Parent and Student Study Guide Workbook*, p. 34

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 170
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz C, p. 100
- _____ Extending the Lesson, *TWE*, p. 170
- _____ ⇨ *Enrichment Masters*, p. 31

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Lesson Planning Guide (pp. 174-177)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Recognize when graphs and statistics are misleading.

_____ State/local objectives: _____

NCTM Standards:

1, 2, 5-9

South Carolina Math Curriculum Standards

Grade 8: DAP II.B.1.

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 174

_____ ⇨ Transparency 4-8A

_____ Motivating the Lesson, Problem Solving, *TWE*, p. 174

2 TEACH

_____ Transparency 4-8B

_____ Using Discussion, *TWE*, p. 175

_____ In-Class Examples, *TWE*, p. 175

_____ ⇨ *Study Guide Masters*, p. 33

_____ Reteaching the Lesson, *TWE*, p. 176

_____ Error Analysis, *TWE*, p. 176

_____ ⇨ *CD-ROM Program*, Resource Lesson 4-8, Interactive Lesson 4-8

3 PRACTICE/APPLY

_____ Check for Understanding, *SE*, pp. 175-176

Homework Assignments (pp. 176-177)


_____ Core: 7-17 odd, 19-22

_____ Enriched: 8-14 even, 16-22

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 617

_____ ⇨ *Practice Masters*, p. 33

_____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 36

4 ASSESS

_____ Closing Activity, Modeling, *TWE*, p. 177

_____ ⇨ *Assessment and Evaluation Masters*, Quiz D, p. 100

_____ Extending the Lesson, *TWE*, p. 177

_____ ⇨ *Enrichment Masters*, p. 33

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Review and Assessment (pp. 178-183)



Teacher's Name _____ Dates _____

Grade _____ Class _____

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

- _____ Study Guide and Assessment, *SE*, pp. 178-181
- _____ Standardized Test Practice, *SE*, pp. 182-183
- _____ Chapter Test, *SE*, p. 650



⇨ **Assessment and Evaluation Masters (pp. 85-103)**

Multiple-Choice Tests

- _____ Form 1A, 1B, or 1C, pp. 85-90
- _____ Standardized Test Practice, pp. 101-102

Free-Response Tests

- _____ Form 2A, 2B, or 2C, pp. 91-96
- _____ Performance Assessment, p. 97
- _____ Cumulative Review, p. 103

- _____ ⇨ *MindJogger Videoquizzes*, Chapter 4
- _____ ⇨ *Test and Review Software*
- _____ ⇨ *CD-ROM Assessment Game*
- _____ ⇨ *State Test Preparation CD-ROM*
- _____ ⇨  *South Carolina Parent and Student Study Guide Workbook*, p. 37
- _____ ⇨  *South Carolina PACT Workbook and Test Preparation, Grade 8*

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