

3 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.

<i>Day (Standard)</i>	<i>Day (Honors)</i>	<i>Lesson</i>	<i>Title</i>
1	1	*Chapter Project	Theme: Movies Lights! Camera! Action!
2	2	3-1	Frequency Tables
3	3	3-2A	<small>THINKING LAB</small> Problem Solving Use a Graph
4	4	3-2	Making Predictions
5	5	3-3	Line Plots
6	6	3-4	Mean, Median, and Mode
		*3-4B	<small>HANDS-ON LAB</small> Cooperative Learning Are You Average?
7	7	3-5	Stem-and-Leaf Plots
8 & 9	8 & 9	*3-6A	<small>HANDS-ON LAB</small> Cooperative Learning Quartiles
		3-6	Box-and-Whisker Plots
		*3-6B	<small>HANDS-ON LAB</small> Cooperative Learning How Much Is a Handful?
10	9	3-7	Misleading Statistics
11	10	Review: Study Guide and Assessment	
12	11	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. 31-32 <i>Spanish Family Letters and Activities</i>, pp. 31-32</p>



Chapter Project (pp. 86-87)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Use statistics to compare and classify information.
- _____ Understand the usefulness of surveys.

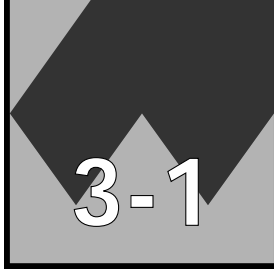
Theme: Movies

- _____ Chapter Project, *SE*, p. 87
- _____ Chapter 3 Notes, *TWE*, p. 86
- _____ Question of the Day, *TWE*, p. 86
- _____ ⇔ *Investigations and Projects Masters*, pp. 25-28

Homework Assignments

- _____ p. 91, Working on the Chapter Project, Exercise 22
- _____ p. 105, Working on the Chapter Project, Exercise 19
- _____ p. 121, Working on the Chapter Project, Exercise 10
- _____ p. 125, Completing the Chapter Project, Alternative Assessment

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



Lesson Planning Guide (pp. 88-91)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Choose appropriate scales and intervals for data, and organize data in a frequency table.

The California Mathematics Academic Content Standards	
Grade 6:	SDP1.1, SDP2.3
	Key Lesson
Grade 7:	MR2.5, MR2.6
	Basic Lesson

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 88
- _____ ⇨ Transparency 3-1A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 88
- _____ Multiple Learning Styles, Interpersonal, *TWE*, p. 88

2 TEACH

- _____ ⇨ Transparency 3-1B
- _____ Reading Mathematics, *TWE*, p. 88
- _____ In-Class Examples, *TWE*, p. 89
- _____ ⇨ *Study Guide Masters*, p. 17
- _____ Reteaching the Lesson, *TWE*, p. 89
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-1, Interactive Lesson 3-1
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 89-90

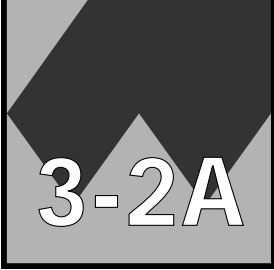
<i>Homework Assignments (p. 90-91)</i>	
_____ Core: 9-21 odd, 23-26	_____ Enriched: 8-20 even, 21, 23-26
_____ Optional: 22 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 574
- _____ ⇨ *Practice Masters*, p. 17
- _____ ⇨ *Diversity Masters*, p. 16

4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 91
- _____ Extending the Lesson, *TWE*, p. 91
- _____ ⇨ *Enrichment Masters*, p. 17

KEY	<i>SE</i> = Student Edition	<i>TWE</i> = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 92-93)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Solve problems by using graphs.

1 FOCUS

_____ Getting Started, *TWE*, p. 92

2 TEACH

_____ *TWE*, p. 92

_____ Reteaching the Lesson, *TWE*, p. 92

_____ In-Class Examples, *TWE*, p. 93

_____ ⇄ *CD-ROM Program*, Interactive Lesson 3-2A

3 PRACTICE/APPLY

_____ Check for Understanding, *TWE*, p. 93

The California Mathematics Academic Content Standards	
Grade 6:	MR2.3, MR3.2
Basic Lesson	
Grade 7:	SDP1.2, MR2.3, MR2.5, MR2.6, MR3.2, MR3.3
Basic Lesson	

Homework Assignments (p. 93)

_____ All: 4-12

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 574

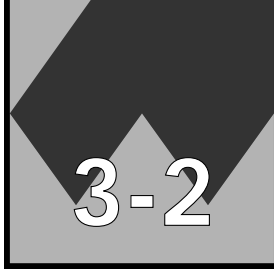
_____ Mixed Problem Solving, *SE*, pp. 605-606

4 ASSESS

_____ Closing Activity, Speaking, *TWE*, p. 93

_____ Extending the Lesson, *TWE*, p. 93

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



Lesson Planning Guide (pp. 94-97)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Make predictions from graphs.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 94
- _____ ⇨ Transparency 3-2A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 94
- _____ Cross-Curriculum Cue, *TWE*, p. 94

2 TEACH

- _____ ⇨ Transparency 3-2B
- _____ Using the Mini-Lab, *TWE*, p. 95
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 3-2
- _____ In-Class Examples, *TWE*, p. 95
- _____ ⇨ *Study Guide Masters*, p. 18
- _____ Reteaching the Lesson, *TWE*, p. 96
- _____ Error Analysis, *TWE*, p. 96
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-2, Extended Activity 3-2
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 96

The California Mathematics Academic Content Standards	
Grade 6:	SDP2.3, MR2.3 🔑 Key Lesson
Grade 7:	SDP1.2, MR2.3, MR2.4, MR2.5, MR2.6 Basic Lesson

Homework Assignments (pp. 96-97)

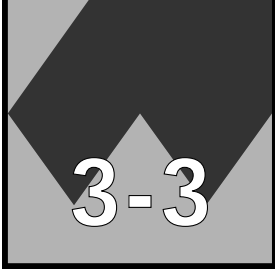
- _____ Core: 6-13 _____ Enriched: 6-13
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 574
- _____ ⇨ *Practice Masters*, p. 18
- _____ ⇨ *Hands-On Lab Masters*, p. 74
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 29-32 & 77-80

4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 97
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz A, p. 71
- _____ Extending the Lesson, *TWE*, p. 97
- _____ ⇨ *Enrichment Masters*, p. 18

KEY	<i>SE</i> = Student Edition	<i>TWE</i> = Teacher's Wraparound Edition	⇨ = Other Program Components
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Lesson Planning Guide (pp. 98-101)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Construct line plots.

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 98
- _____ ⇨ Transparency 3-3A
- _____ Motivating the Lesson, Communication, *TWE*, p. 98

2 TEACH

- _____ ⇨ Transparency 3-3B
- _____ Thinking Algebraically, *TWE*, p. 99
- _____ In-Class Examples, *TWE*, p. 99
- _____ Multiple Learning Styles, Visual/Spatial, *TWE*, p. 99
- _____ ⇨ *Study Guide Masters*, p. 19
- _____ Reteaching the Lesson, *TWE*, p. 100
- _____ Error Analysis, *TWE*, p. 100
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-3, Interactive Lesson 3-3

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 100

Homework Assignments (p. 46)

- _____ Core: 7-15 odd, 17-20
- _____ Enriched: 6-12 even, 14-20
- _____ Alternate Assignment: _____

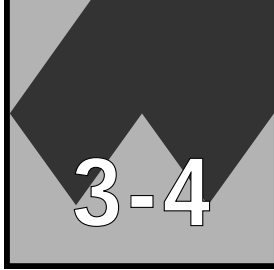
- _____ Extra Practice, *SE*, p. 574
- _____ ⇨ *Practice Masters*, p. 19

4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 101
- _____ Extending the Lesson, *TWE*, p. 101
- _____ ⇨ *Enrichment Masters*, p. 19

The California Mathematics Academic Content Standards	
Grade 6:	SDP2.3 🔑 Key Lesson
Grade 7:	MR2.5, MR2.6 Basic Lesson

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



Lesson Planning Guide (pp. 102-105)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Find the mean, median, and mode of a set of data.

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 102

_____ ⇨ Transparency 3-4A

_____ Motivating the Lesson, Problem Solving, *TWE*, p. 102

2 TEACH

_____ ⇨ Transparency 3-4B

_____ Reading Mathematics, *TWE*, p. 103

_____ In-Class Examples, *TWE*, p. 103

_____ ⇨ *Study Guide Masters*, p. 20

_____ Reteaching the Lesson, *TWE*, p. 104

_____ ⇨ *CD-ROM Program*, Resource Lesson 3-4

3 PRACTICE/APPLY

_____ Check for Understanding, *SE*, p. 104

The California Mathematics Academic Content Standards

Grade 6: SDP1.1, SDP1.2, SDP1.4, MR2.5

Basic Lesson

Grade 7: SDP1.3, MR2.5, MR2.6

🔑 Key Lesson

Homework Assignments (pp. 104-105)

_____ Core: 9-17 odd, 20-23

_____ Enriched: 8-16 even, 17, 18, 20-23

_____ Optional: 19 (Working on the Chapter Project)

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 575

_____ ⇨ *Practice Masters*, p. 20

_____ ⇨ *Technology Masters*, Calculator Activity, p. 31

_____ ⇨ *Science and Mathematics Lab Manual*, pp. 73-76

_____ ⇨ Classroom Games, pp. 9-11

4 ASSESS

_____ Closing Activity, Writing, *TWE*, p. 105

_____ Extending the Lesson, *TWE*, p. 105

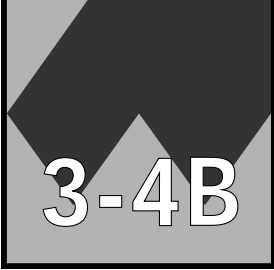
_____ ⇨ *Enrichment Masters*, p. 20

_____ Mid-Chapter Self Test, *SE*, p. 105

_____ ⇨ *Assessment and Evaluation Masters*, Mid-Chapter Test, p. 70

_____ ⇨ *Assessment and Evaluation Masters*, Quiz B, p. 71

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Lesson Planning Guide (pp. 106-107)



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

Objectives

_____ Use mean, median, and mode to describe a set of data.

MANAGEMENT

_____ Getting Started, *TWE*, p. 106

_____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*,
Lesson 3-4B

ASSESS

_____ *TWE*, p. 106

_____ ⇨ *Hands-On Lab Masters*, p. 41

The California Mathematics
Academic Content Standards

Grade 6: SDP1.4
Basic Lesson

Grade 7: SDP1.3, MR2.5,
MR2.6
Key Lesson

Class Activity (p. 106)

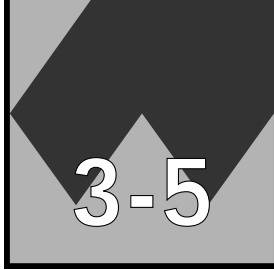
_____ All: 1-3

_____ Alternate Assignment: _____

_____ Math Journal, *TWE*, p. 106

_____ Let the Games Begin, *TWE*, p. 107

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Lesson Planning Guide (pp. 108-111)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Construct and interpret stem-and-leaf plots.

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 108

_____ ⇨ Transparency 3-5A

_____ Motivating the Lesson, Communication, *TWE*, p. 108

2 TEACH

_____ ⇨ Transparency 3-5B

_____ Using Discussion, *TWE*, p. 108

_____ Multiple Learning Styles, Verbal/Linguistic, *TWE*, p. 108

_____ In-Class Examples, *TWE*, p. 109

_____ ⇨ *Study Guide Masters*, p. 21

_____ Reteaching the Lesson, *TWE*, p. 109

_____ Error Analysis, *TWE*, p. 109

_____ ⇨ *Transition Booklet*, pp. 5-6

_____ ⇨ *CD-ROM Program*, Resource Lesson 3-5

3 PRACTICE/APPLY

_____ Check for Understanding, *SE*, pp. 109-110

Homework Assignments (pp. 110-111)

_____ Core: 9-13 odd, 15-18

_____ Enriched: 8-12 even, 13-18

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 575

_____ ⇨ *Practice Masters*, p. 21

4 ASSESS

_____ Closing Activity, Modeling, *TWE*, p. 111

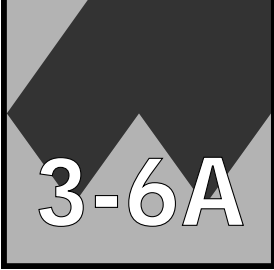
_____ Family Activity, *SE*, p. 111

_____ Extending the Lesson, *TWE*, p. 111

_____ ⇨ *Enrichment Masters*, p. 21

The California Mathematics Academic Content Standards	
Grade 6:	SDP2.3, MR2.4, MR2.5
Basic Lesson	
Grade 7:	SDP1.1, MR2.5, MR2.6
Basic Lesson	

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Lesson Planning Guide (pp. 112-113)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Graph quartiles and determine interquartile range.

MANAGEMENT

_____ Getting Started, *TWE*, p. 112

_____ ⇨ *Hands-On Lab Masters*, p. 15: number lines

_____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*,
Lesson 3-6A

_____ ⇨ *Overhead Manipulative Resources*: number line transparency

The California Mathematics Academic Content Standards
Grade 6: Optional Lesson
Grade 7: SDP1.3, MR1.2, MR2.5, MR2.6 Key Lesson

ASSESS

_____ *TWE*, p. 113

_____ ⇨ *Hands-On Lab Masters*, p. 42

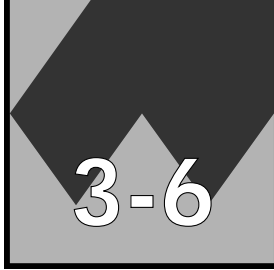
Class Activity (p. 113)

_____ All: 1-4

_____ Alternate Assignment: _____

_____ Math Journal, *TWE*, p. 113

KEY SE = Student Edition TWE = 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

_____ Construct and interpret box-and-whisker plots.

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 114

_____ ⇨ Transparency 3-6A

_____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 115

2 TEACH

_____ ⇨ Transparency 3-6B

_____ Reading Mathematics, *TWE*, p. 115

_____ In-Class Examples, *TWE*, p. 115

_____ ⇨ *Study Guide Masters*, p. 22

_____ Reteaching the Lesson, *TWE*, p. 115

_____ Error Analysis, *TWE*, p. 115

_____ ⇨ *CD-ROM Program*, Resource Lesson 3-6

3 PRACTICE/APPLY

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

The California Mathematics Academic Content Standards	
Grade 6:	SDP2.3 🔑 Key Lesson
Grade 7:	SDP1.1, SDP1.3, MR2.5, MR2.6 🔑 Key Lesson

Homework Assignments (p. 117)

_____ Core: 6, 7, 9-12

_____ Enriched: 6, 8, 9-12

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 576

_____ ⇨ *Practice Masters*, p. 22

4 ASSESS

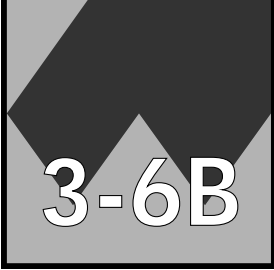
_____ Closing Activity, Speaking, *TWE*, p. 117

_____ ⇨ *Assessment and Evaluation Masters*, Quiz C, p. 72

_____ Extending the Lesson, *TWE*, p. 117

_____ ⇨ *Enrichment Masters*, p. 22

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Lesson Planning Guide (p. 118)



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

Objectives

_____ Use data to make predictions.

MANAGEMENT

_____ Getting Started, *TWE*, p. 118

_____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*,
Lesson 3-6B

ASSESS

_____ *TWE*, p. 118

_____ ⇨ *Hands-On Lab Masters*, p. 43

The California Mathematics Academic Content Standards	
Grade 6:	Optional Lesson
Grade 7:	SDP1.3, MR2.5, MR2.6 Key Lesson

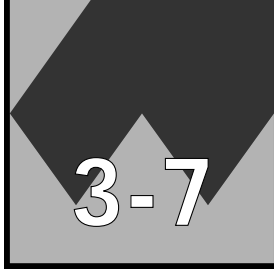
Class Activity (p. 118)

_____ All: 1-3

_____ Alternate Assignment: _____

_____ Math Journal, *TWE*, p. 118

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Lesson Planning Guide (pp. 119-121)



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

Objectives

_____ Recognize when statistics and graphs are misleading.

1 FOCUS

_____ 5-Minute Check, *TWE*, p. 119
_____ ⇨ Transparency 3-7A

2 TEACH

_____ ⇨ Transparency 3-7B
_____ Using Critical Thinking, *TWE*, p. 119
_____ In-Class Examples, *TWE*, p. 120
_____ ⇨ *Study Guide Masters*, p. 23
_____ Reteaching the Lesson, *TWE*, p. 120
_____ ⇨ *CD-ROM Program*, Resource Lesson 3-7

3 PRACTICE/APPLY

_____ Check for Understanding, *SE*, p. 120

The California Mathematics Academic Content Standards	
Grade 6:	SDP1.3, SDP1.4, SDP2.3, SDP2.5 🔑 Key Lesson
Grade 7:	SDP1.3, MR2.5, MR2.6 🔑 Key Lesson

Homework Assignments (p. 121)

_____ Core: 7-11 odd, 12-13	_____ Enriched: 8, 9, 11-13
_____ Optional: 10 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

_____ Extra Practice, *SE*, p. 576
_____ ⇨ *Practice Masters*, p. 23
_____ ⇨ *Technology Masters*, Graphing Calculator Activity, p. 32

4 ASSESS

_____ Closing Activity, Writing, *TWE*, p. 121
_____ ⇨ *Assessment and Evaluation Masters*, Quiz D, p. 72
_____ Extending the Lesson, *TWE*, p. 121
_____ ⇨ *Enrichment Masters*, p. 23

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Review and Assessment (pp. 122-127)



Teacher's Name _____ Dates _____

Grade _____ Class _____
Review M Tu W Th F
Testing M Tu W Th F

- _____ Study Guide and Assessment, *SE*, pp. 122-125
- _____ Standardized Test Practice, *SE*, pp. 126-127
- _____ Chapter Test, *SE*, p. 609





⇔ **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*
- _____ ⇔  *California Framework Practice and Sample Test Workbook*, Grade 6
- _____ ⇔  *California Framework Practice Transparencies*, Grade 6
- _____ ⇔  *California Framework Practice and Sample Test Workbook*, Grade 7
- _____ ⇔  *California Framework Practice Transparencies*, Grade 7

Interdisciplinary Investigation, SE, pp. 128-129

- _____ Interdisciplinary Investigation, *TWE*, pp. 128-129
- _____ ⇔ *Investigations and Projects Masters*, pp. 1-4

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