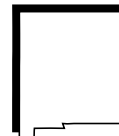


13 Using Probability



Chapter Pacing Guide

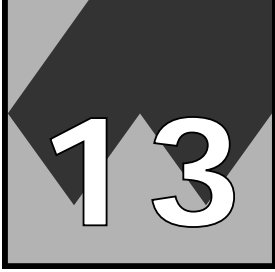
Please note that this pacing guide is based upon completing the entire text in 165 classes, approximately 50 minutes each. More time can be allotted for this chapter if you do not plan to teach the entire text.

<i>Day (Honors)</i>	<i>Lesson</i>	<i>Title</i>
1	*Chapter Project	Theme: Wildlife Animals Here Today, Gone Tomorrow
	*13-1A	<small>HANDS-ON LAB</small> Cooperative Learning Fair and Unfair Games
2	13-1	Theoretical Probability
3	13-2A	<small>THINKING LAB</small> Problem Solving Make a Table
4	13-2	Integration: Statistics Making Predictions Using Samples
5 & 6	13-3	Integration: Geometry Probability and Area
	*13-3B	<small>TECHNOLOGY LAB</small> Graphing Calculators Probability
7 & 8	13-4	Finding Outcomes
	*13-4B	<small>HANDS-ON LAB</small> Cooperative Learning Simulations
9	13-5	Probability of Independent Events
10	Review: Study Guide and Assessment	
11	Assessment: Chapter Test	

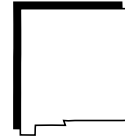
* *Optional*

Chapter Resources

<p>Meeting Individual Needs <i>Investigations for the Special Education Student</i>, The Game Show, pp. 45-46 <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 Unit 10</p>	<p>Applications <i>Family Letters and Activities</i>, pp. 25-26 <i>Spanish Family Letters and Activities</i>, pp. 25-26</p>



Chapter Project (pp. 512-513)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

- _____ Use probability to explore how camouflage works.
- _____ Research how animals are camouflaged.
- _____ Write a report on how a probability experiment can be used to illustrate camouflage.

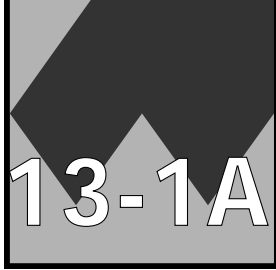
Theme: *Wildlife Animals*

- _____ Chapter Project, *SE*, p. 513
- _____ Chapter 13 Notes, *TWE*, p. 512
- _____ Question of the Day, *TWE*, p. 512
- _____ ⇄ *Investigations and Projects Masters*, pp. 65-68

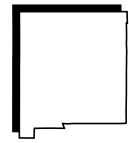
Homework Assignments

- _____ p. 518, Working on the Chapter Project, Exercise 27
- _____ p. 529, Working on the Chapter Project, Exercise 23
- _____ p. 543, Completing the Chapter Project, Alternative Assessment

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



Lesson Planning Guide (p. 514)



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

Objectives

_____ Explore fair and unfair games.

NCTM Standards: 1-4, 7, 8, 10, 11
New Mexico Mathematics Performance Standards Grades 5-8: 7-E-3

MANAGEMENT

- _____ Getting Started, *TWE*, p. 514
- _____ ⇨ *Hands-On Lab Masters*, p. 21: number cube patterns
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*,
 Lesson 13-1A

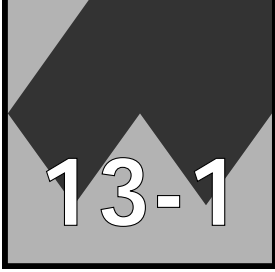
ASSESS

- _____ *TWE*, p. 514
- _____ ⇨ *Hands-On Lab Masters*, p. 67

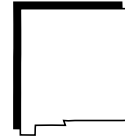
Class Activity (p. 514)
_____ All: 1-5 _____ Alternate Assignment: _____

_____ Math Journal, *TWE*, p. 514

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Lesson Planning Guide (pp. 515-519)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Find and interpret the theoretical probability of an event.

NCTM Standards:
1-11

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 515
- _____ ⇨ Transparency 13-1A
- _____ Motivating the Lesson, Communication, *TWE*, p. 516
- _____ Cross-Curriculum Cue, *TWE*, p. 515

**New Mexico Mathematics
Performance Standards
Grades 5-8:**
2-A-1, 2-A-2, 2-A-3, 4-B-1,
4-E-1, 7-E-3, 11-A-1, 11-B-1,
11-C-1, 11-D-1

2 TEACH

- _____ ⇨ Transparency 13-1B
- _____ Reading Mathematics, *TWE*, p. 516
- _____ In-Class Examples, *TWE*, p. 516
- _____ ⇨ *Study Guide Masters*, p. 90
- _____ Reteaching the Lesson, *TWE*, p. 517
- _____ Error Analysis, *TWE*, p. 517
- _____ ⇨ *CD-ROM Program*, Resource Lesson 13-1, Interactive Lesson 13-1

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 517

Homework Assignments (pp. 517-518)

- _____ Core: 11-25 odd, 28-32 _____ Enriched: 12-24 even, 25, 26, 28-32
- _____ Optional: 27 (Working on the Chapter Project)
- _____ Alternate Assignment: _____

- _____ Extra Practice, *SE*, p. 590
- _____ ⇨ *Practice Masters*, p. 90
- _____ ⇨ *Diversity Masters*, p. 13
- _____ School to Career Activity, *SE*, p. 519

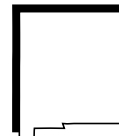
4 ASSESS

- _____ Closing Activity, Modeling, *TWE*, p. 518
- _____ Extending the Lesson, *TWE*, p. 518
- _____ ⇨ *Enrichment Masters*, p. 90

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Lesson Planning Guide (pp. 520-521)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Solve problems by making a table.

1 FOCUS

_____ Getting Started, *TWE*, p. 520

2 TEACH

_____ In-Class Examples, *TWE*, p. 520

_____ Reteaching the Lesson, *TWE*, p. 520

3 PRACTICE/APPLY

_____ Check for Understanding, *TWE*, p. 521

NCTM Standards:

1-8, 10

New Mexico Mathematics Performance Standards

Grades 5-8:

1-C-1, 10-A-1, 10-B-1,
10-C-1, 10-D-1

Homework Assignments (p. 521)

_____ All: 5-13

_____ Alternate Assignment: _____

_____ Extra Practice, *SE*, p. 591

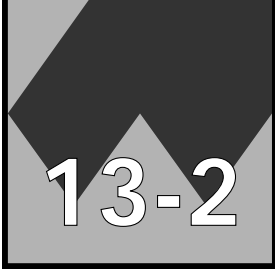
_____ Mixed Problem Solving, *SE*, pp. 593-594

4 ASSESS

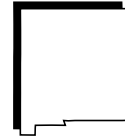
_____ Closing Activity, Writing, *TWE*, p. 521

_____ Extending the Lesson, *TWE*, p. 521

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Lesson Planning Guide (pp. 522-525)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

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

NCTM Standards: 1-8, 10-13
New Mexico Mathematics Performance Standards Grades 5-8: 4-E-1, 10-A-1, 10-C-1, 10-D-1, 10-E-1, 11-D-1

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 522
- _____ ⇨ Transparency 13-2A
- _____ Motivating the Lesson, Hands-On-Activity, *TWE*, p. 522
- _____ Multiple Learning Styles, Intrapersonal, *TWE*, p. 522

2 TEACH

- _____ ⇨ Transparency 13-2B
- _____ Using the Mini-Lab, *TWE*, p. 523
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 13-2
- _____ In-Class Examples, *TWE*, p. 523
- _____ ⇨ *Study Guide Masters*, p. 91
- _____ Reteaching the Lesson, *TWE*, p. 524
- _____ ⇨ *CD-ROM Program*, Resource Lesson 13-2

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 524

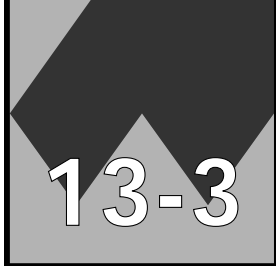
Homework Assignments (pp. 524-525)	
_____ Core: 9-19 odd, 20-23	_____ Enriched: 8-16 even, 18-23
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 591
- _____ ⇨ *Practice Masters*, p. 91
- _____ ⇨ *Technology Masters*, Calculator Activity, p. 25

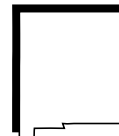
4 ASSESS

- _____ Closing Activity, Speaking, *TWE*, p. 525
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz A, p. 351
- _____ Extending the Lesson, *TWE*, p. 525
- _____ ⇨ *Enrichment Masters*, p. 91
- _____ Mid-Chapter Self Test, *SE*, p. 525

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Lesson Planning Guide (pp. 526-529)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Find probability using area models.

NCTM Standards: 1-8, 11-13
New Mexico Mathematics Performance Standards Grades 5-8: 7-E-3, 11-C-1

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 526
- _____ ⇨ Transparency 13-3A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 526
- _____ Multiple Learning Styles, Auditory/Musical, *TWE*, p. 526

2 TEACH

- _____ ⇨ Transparency 13-3B
- _____ Using the Mini-Lab, *TWE*, p. 527
- _____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Mini-Lab for Lesson 13-3
- _____ In-Class Examples, *TWE*, p. 527
- _____ ⇨ *Study Guide Masters*, p. 92
- _____ Reteaching the Lesson, *TWE*, p. 528
- _____ Error Analysis, *TWE*, p. 528
- _____ ⇨ *CD-ROM Program*, Resource Lesson 13-3, Interactive Lesson 13-3
- _____ ⇨ *Interactive Mathematics Tools Software*

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, pp. 527-528

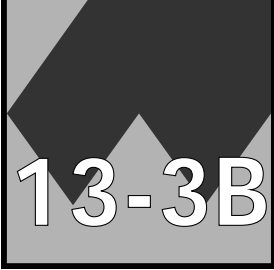
Homework Assignments (pp. 528-529)	
_____ Core: 9-21 odd, 24-27	_____ Enriched: 10-20 even, 21, 22, 24-27
_____ Optional: 23 (Working on the Chapter Project)	
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 591
- _____ ⇨ *Practice Masters*, p. 92
- _____ ⇨ *Hands-On Lab Masters*, p. 81

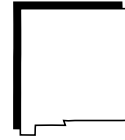
4 ASSESS

- _____ Closing Activity, Writing, *TWE*, p. 529
- _____ ⇨ *Assessment and Evaluation Masters*, Mid-Chapter Test, p. 350
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz B, p. 351
- _____ Extending the Lesson, *TWE*, p. 529
- _____ ⇨ *Enrichment Masters*, p. 92

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Lesson Planning Guide (p. 530)



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

Objectives

_____ Investigate geometric probability by using a graphing calculator.

MANAGEMENT

_____ Getting Started, *TWE*, p. 530

ASSESS

_____ *TWE*, p. 530

NCTM Standards: 1-5, 7-12
New Mexico Mathematics Performance Standards Grades 5-8: 1-E-1, 7-E-3

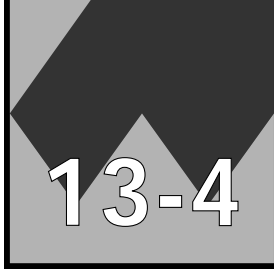
Class Activity (p. 530)

_____ All: 1-5

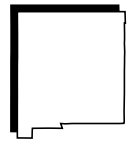
_____ Alternate Assignment: _____

_____ Math Journal, *TWE*, p. 530

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Lesson Planning Guide (pp. 531-534)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Find outcomes using lists, tree diagrams, and combinations.

NCTM Standards: 1-8, 11-13
New Mexico Mathematics Performance Standards Grades 5-8: 2-A-2, 4-C-2, 4-E-1, 11-B-1, 11-D-2

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 531
- _____ ⇨ Transparency 13-4A
- _____ Motivating the Lesson, Problem Solving, *TWE*, p. 532
- _____ Multiple Learning Styles, Verbal/Linguistic, *TWE*, p. 531

2 TEACH

- _____ ⇨ Transparency 13-4B
- _____ Reading Mathematics, *TWE*, p. 532
- _____ In-Class Examples, *TWE*, p. 532
- _____ ⇨ *Study Guide Masters*, p. 93
- _____ Reteaching the Lesson, *TWE*, p. 533
- _____ Error Analysis, *TWE*, p. 533
- _____ ⇨ *CD-ROM Program*, Resource Lesson 13-4

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 533

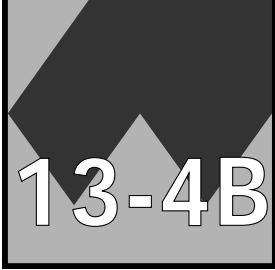
Homework Assignments (pp. 533-534)	
_____ Core: 9-17 odd, 19-22	_____ Enriched: 8-16 even, 17-22
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 592
- _____ ⇨ *Practice Masters*, p. 93
- _____ ⇨ *Technology Masters*, Graphing Calculator Activity, p. 26
- _____ Family Activity, *SE*, p. 533

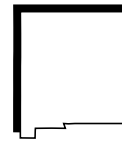
4 ASSESS

- _____ Closing Activity, Act It Out, *TWE*, p. 534
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz C, p. 352
- _____ Extending the Lesson, *TWE*, p. 534
- _____ ⇨ *Enrichment Masters*, p. 93

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Lesson Planning Guide (p. 535)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Explore probability by conducting a simulation.

NCTM Standards:

1-4, 10, 11

New Mexico Mathematics Performance Standards

Grades 5-8:

1-F-1, 2-A-1, 11-A-1

MANAGEMENT

_____ Getting Started, *TWE*, p. 535

_____ ⇨ *Hands-On Lab Masters*, p. 6: counters, p. 8: pattern for cup

_____ ⇨ *Teacher's Guide for Overhead Manipulative Resources*, Lesson 13-4B

_____ ⇨ *Overhead Manipulative Resources*: counters, cups

ASSESS

_____ *TWE*, p. 535

_____ ⇨ *Hands-On Lab Masters*, p. 68

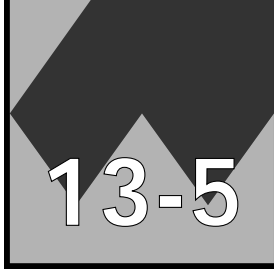
Class Activity (p. 535)

_____ All: 1-4

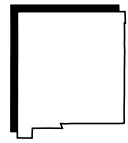
_____ Alternate Assignment: _____

_____ Math Journal, *TWE*, p. 535

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Lesson Planning Guide (pp. 536-539)



Teacher's Name _____ Dates _____

Grade _____ Class _____ M Tu W Th F

Objectives

_____ Find the probability of independent events.

NCTM Standards: 1-8, 10-12
New Mexico Mathematics Performance Standards Grades 5-8: 2-A-2, 4-E-1, 7-E-3, 11-A-1, 11-B-1, 11-E-1

1 FOCUS

- _____ 5-Minute Check, *TWE*, p. 536
- _____ ⇨ Transparency 13-5A
- _____ Motivating the Lesson, Communication, *TWE*, p. 536
- _____ Multiple Learning Styles, Logical, *TWE*, p. 536

2 TEACH

- _____ ⇨ Transparency 13-5B
- _____ Thinking Algebraically, *TWE*, p. 537
- _____ In-Class Examples, *TWE*, p. 537
- _____ ⇨ *Study Guide Masters*, p. 94
- _____ Reteaching the Lesson, *TWE*, p. 538
- _____ ⇨ *CD-ROM Program*, Resource Lesson 3-5

3 PRACTICE/APPLY

- _____ Check for Understanding, *SE*, p. 538

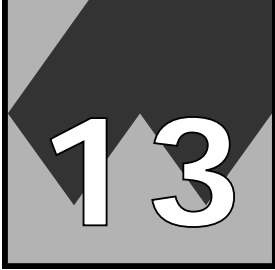
Homework Assignments (pp. 538-539)	
_____ Core: 9-19 odd, 20-23	_____ Enriched: 8-16 even, 18-23
_____ Alternate Assignment: _____	

- _____ Extra Practice, *SE*, p. 592
- _____ ⇨ *Practice Masters*, p. 94
- _____ ⇨ *Science and Mathematics Lab Manual*, pp. 93-96
- _____ ⇨ *Classroom Games*, pp. 37-40

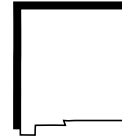
4 ASSESS

- _____ Let the Games Begin, *SE*, p. 539
- _____ Closing Activity, Speaking, *TWE*, p. 539
- _____ ⇨ *Assessment and Evaluation Masters*, Quiz D, p. 352
- _____ Extending the Lesson, *TWE*, p. 539
- _____ ⇨ *Enrichment Masters*, p. 94

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Review and Assessment (pp. 540-545)



Teacher's Name _____ Dates _____

Grade _____ Class _____ Review M Tu W Th F

Testing M Tu W Th F

_____ Study Guide and Assessment, *SE*, pp. 540-543

_____ Standardized Test Practice, *SE*, pp. 544-545

_____ Chapter Test, *SE*, p. 607

⇔ **Assessment and Evaluation Masters (pp. 337-355)**

Multiple-Choice Tests

_____ Form 1A, 1B, or 1C, pp. 337-342

_____ Standardized Test Practice, pp. 353-354

Free-Response Tests

_____ Form 2A, 2B, or 2C, pp. 343-348

_____ Performance Assessment, p. 349

_____ Cumulative Review, p. 355

_____ ⇔ *MindJogger Videoquizzes*, Chapter 13

_____ ⇔ *Test and Review Software*

_____ ⇔ *CD-ROM Assessment Game*

_____ ⇔ *State Test Preparation CD-ROM*

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