

Day 01	Day 02	Day 03	Day 05	Day 06
<p><b>Every Day Counts</b></p> <p>Update all Discuss</p> <ul style="list-style-type: none"> <li>• Calendar</li> <li>• Coin Counter</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update all Introduce</p> <ul style="list-style-type: none"> <li>• new Daily Depositor (see p. 47)</li> <li>• Measurement (See “Discussion about Temperature on p. 49).</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>• Measurement</li> <li>• Counting Tape - Today’s Number</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>• Daily Depositor</li> <li>• Measurement</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>• Calendar</li> <li>• Coin Counter</li> </ul>
<p><b>Whole Group Lessons</b></p> <p>Investigation 1, Session 1</p> <ul style="list-style-type: none"> <li>• Quick Images: 10 Frames (p. 6, blackline on p. 202) <i>10 min.</i></li> <li>• Shapes in the Classroom (p. 7)</li> </ul> <p><i>15 min.</i></p> <ul style="list-style-type: none"> <li>• Sorting Shape Cards (p. 7-8, read p. 12-13 also) <i>30 min.</i></li> </ul>	<p><b>Whole Group Lessons</b></p> <p>Investigation 1, Session 1, cont.</p> <ul style="list-style-type: none"> <li>• Quick Images: 10 Frames <i>10 min.</i></li> <li>• Making Shape Card Posters (p. 9) <i>30 min.</i></li> </ul> <p>*Have children share their Shape Card posters (p. 9) <i>10-15 min.</i></p>	<p><b>Whole Group Lessons</b></p> <p>Investigation 1, Session 2</p> <ul style="list-style-type: none"> <li>• Covering Pattern Blocks (p. 14-16), <i>30-40 min.</i></li> <li>• Predict and Cover (p. 16-17) <i>20-30 min.</i></li> </ul>	<p><b>Whole Group Lessons</b></p> <p>Investigation 1, Session 4</p> <ul style="list-style-type: none"> <li>• Computer Activity: Introducing Solve Puzzles (p. 30-31)</li> </ul> <p>If possible, introduce this activity to your whole group and then do Choice Time. If not, introduce Solve Puzzles to small groups today and tomorrow while the rest do Choice Time.</p>	<p><b>Whole Group Lessons</b></p> <p>Investigation 1, Session 5</p> <ul style="list-style-type: none"> <li>• Quick Images: Rectangular Arra (p. 203) Do 3-4 of these. <i>10 min</i></li> </ul> <p><b>Teacher checkpoint</b></p> <ul style="list-style-type: none"> <li>• Predict &amp; Cover (p. 33-35) Do this <b>after</b> Choice Time today. <i>20 - 25 mi</i></li> </ul>
<p><b>Choice Time</b></p>	<p><b>Choice Time</b></p> <p>Have children who finish early play familiar Choice Time games from <u>Coins, Coupons, Combinations</u>:</p> <ul style="list-style-type: none"> <li>• Close to 20</li> <li>• Collect 50¢ and /or</li> </ul> <p>From <u>Does It Walk, Crawl...</u></p> <ul style="list-style-type: none"> <li>• Sorting Object Collections / Guess My Rule (p. 40)</li> </ul>	<p><b>Choice Time</b></p>	<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>• Solve Puzzles (p. 32)</li> <li>• Predict &amp; Cover (p. 18-19)</li> <li>• Build the Geoblock (p. 19)</li> </ul>	<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>• Predict &amp; Cover (p. 18-19)</li> <li>• Build the Geoblock (p. 19)</li> <li>• Solve Puzzles (p. 32) <i>30 min.</i></li> </ul>
<p><b>Homework</b></p> <ul style="list-style-type: none"> <li>• Family Letter (p. 169)</li> </ul>	<p><b>Homework</b></p> <ul style="list-style-type: none"> <li>• Shapes at Home - Student Sheet 2</li> </ul>	<p><b>Homework</b></p>	<p><b>Homework</b></p> <p>Shapes Within Shapes, Student Sheet 8</p>	<p><b>Homework</b></p> <ul style="list-style-type: none"> <li>• Composing New Shapes with 2 Triangles - Student Sheets 10 and 11</li> </ul>
<p><b>Teacher Support</b></p> <ul style="list-style-type: none"> <li>• Read “About the Mathematics” on p. I-18 prior to starting this unit.</li> <li>• <i>Quick Images</i> is an important classroom routine that will continue throughout the year. Be sure to read p.125-126 about this.</li> </ul>	<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p> <p>Read the Teacher Note on p. 27-29 before doing “Predict and Cover”</p>	<p><b>Teacher Support</b></p> <p>Be sure to read the Teacher Notes on p. 36-37 concerning the Shapes Software and computers in this unit.</p>	<p><b>Teacher Support</b></p>

Day 07	Day 08	Day 09	Day 10	Day 11
<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>Counting Tape</li> </ul> <p>(Refer to p. 34 for questions about Place Value and Number Sense)</p> <ul style="list-style-type: none"> <li>Daily Depositor</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>Clock</li> <li>Coin Counter</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>Measurement and Temperature Graph</li> <li>Daily Depositor</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>Daily Depositor</li> <li>Calendar</li> <li>Counting Tape / Today's Number</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All: Discuss:</p> <ul style="list-style-type: none"> <li>Calendar</li> <li>Coin Counter</li> <li>Clock</li> </ul>
<p><b>Whole Group Lessons</b></p> <p>Investigation 1, Session 6</p> <ul style="list-style-type: none"> <li>The Last Block Game (p. 38-39)</li> </ul> <p>Demonstrate how to play this game. <i>10 min.</i></p> <ul style="list-style-type: none"> <li>Cube Buildings (p. 39-40, read p. 43 also)</li> </ul> <p>Have children make buildings as described on pgs 39-40; demonstrate the recording process on an overhead transparency of Student Sheet 12 rather than distributing copies to the students. <i>20 min.</i></p>	<p><b>Whole Group Lessons</b></p> <p>Investigation 1, Session 7</p> <p>Quick Images: Dot Patterns p. 38 (blackline on p. 201)</p> <p>If students need challenge beyond a single dot image, show two images together and ask for the total number of dots. <i>10-15 min.</i></p>	<p><b>Whole Group Lessons</b></p> <p>Investigation 1, Session 8</p> <ul style="list-style-type: none"> <li>Class Discussion: Build a Building (p. 42) Do this <b>after</b> Choice Time today. <i>20 min.</i></li> </ul>	<p><b>Whole Group Lessons</b></p> <p style="text-align: center;"><b>Catch-Up Day</b></p> <p>Spend a few minutes today on a "measure hunt" with your students: have them look for objects 6-9 inches in length and then measure with a ruler.</p>	<p><b>Whole Group Lessons</b></p> <p style="text-align: center;"><b>Pocket Day</b></p> <ul style="list-style-type: none"> <li>Refer to notes on pages 119-122 for a description of the routine and its variations <i>30-40 min</i></li> </ul>
<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>Build the Geoblock (p. 19)</li> <li>Solve Puzzles (p. 32)</li> <li>The Last Block Game (p. 38-39)</li> <li>Build a Building (p. 41)</li> </ul> <p><i>40 min.</i></p>	<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>Build the Geoblock (p. 19)</li> <li>Solve Puzzles (p. 32)</li> <li>Last Block Game (p. 38-39)</li> <li>Build a Building (p. 41)</li> </ul> <p><i>45 min.</i></p>	<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>Build the Geoblock (p. 19)</li> <li>Solve Puzzles (p. 32)</li> <li>Last Block Game (p. 38-39)</li> <li>Build a Building (p. 41)</li> </ul> <p><i>40 min.</i></p>	<p><b>Choice Time</b></p>	<p><b>Choice Time</b></p>
<p><b>Homework</b></p>	<p><b>Homework</b></p> <p>Extend Your Thinking p. 124</p>	<p><b>Homework</b></p>	<p><b>Homework</b></p>	<p><b>Homework</b></p>
<p><b>Teacher Support</b></p> <p><i>* Make inch chart for February Every Day Counts ahead of time using TR17 (in EDC book).</i></p>	<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p>

Day 12	Day 13	Day 14	Day 15	Day 16
<p><b>Every Day Counts</b></p> <p>Update All: Discuss:</p> <ul style="list-style-type: none"> <li>• Daily Depositor</li> <li>• Measurement</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All: Discuss:</p> <ul style="list-style-type: none"> <li>• Coin Collector - Shopping Problem</li> <li>• Measurement &amp; Temperature Graph</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>• Calendar</li> <li>• Counting Tape</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All: Discuss:</p> <ul style="list-style-type: none"> <li>• Calendar</li> <li>• Counting Tape</li> </ul> <p>(Continue to refer to questions on p. 34).</p>	<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>• Daily Depositor</li> <li>• Measurement</li> </ul>
<p><b>Whole Group Lessons</b></p> <p>Investigation 2, Session 1</p> <ul style="list-style-type: none"> <li>• Quick Images (p.46) <i>10 min.</i></li> <li>• Guess My Shape Rule (p. 46-48) <i>25 min.</i></li> <li>• Writing: What is a Rectangle? (p. 49; read p. 50-51)</li> </ul>	<p><b>Whole Group Lessons</b></p> <ul style="list-style-type: none"> <li>• Use or Look for a Pattern Problem 31 (PS p. T 61-62) <i>20 min.</i></li> <li>Investigation 2, Session 2</li> <li>• Ordering Rectangles (p. 52-53) <i>40 min.</i></li> </ul>	<p><b>Whole Group Lessons</b></p> <ul style="list-style-type: none"> <li>• Use or Look for a Pattern Problem 32 (PS p. T 63-64) <i>20 min.</i></li> <li>Investigation 2, Session 2, cont.</li> <li>• Covering Rectangles (p. 54) <i>40 min.</i></li> </ul>	<p><b>Whole Group Lessons</b></p> <p>Investigation 2, Session 3</p> <ul style="list-style-type: none"> <li>• Building Tile Rectangles (p. 55-57) <i>25-30 min.</i></li> <li>• How Many Rectangles? (p. 57) <i>25-30 min.</i></li> </ul>	<p><b>Whole Group Lessons</b></p> <p>Investigation 2, Session 4</p> <ul style="list-style-type: none"> <li>• Quick Images: Rectangular Arra (p. 62-63) <i>10 min.</i></li> <li>• Introduce Choice Time activities: Describing Rectangles and How Many Rectangles (p. 58-59) <i>10 min.</i></li> <li>• If possible, spend another 10 minutes introducing On Computer Activity (p. 63); not, work with small groups during Choice Time over the next few days to teach it.</li> </ul>
<p><b>Choice Time</b></p>	<p><b>Choice Time</b></p>	<p><b>Choice Time</b></p>	<p><b>Choice Time</b></p>	<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>• The Last Block Game</li> <li>• Build a Building</li> <li>• Describing Rectangles (p. 58)</li> <li>• How Many rectangles? (p. 58) <i>40 min.</i></li> </ul>
<p><b>Homework</b></p> <p>Composing New Shapes with 3 or 4 Triangles - Student Sheets 10 and 13</p>	<p><b>Homework</b></p> <p>Looking for Quadrilaterals, Student Sheet 14</p>	<p><b>Homework</b></p> <p>Practice Page A, Number Strings</p>	<p><b>Homework</b></p> <p>Only One Rectangle - Student Sheet 17</p>	<p><b>Homework</b></p> <p>Practice Page B, Number Strings</p>
<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p> <p>Look for natural opportunities today, and in other lessons using tiles with rectangles, to introduce the concept of <i>area</i> to your students</p>	<p><b>Teacher Support</b></p> <p>Read the Dialogue Boxes on p. 60-61 prior to today's lesson.</p>

**Day 17**

**Day 18**

**Day 19**

**Day 20**

**Day 21**

**Every Day Counts**  
 Update All and Discuss  
 • Daily Depositor  
 • Coin Counter - generate combinations to show how many days you've been in school.  
 • Calendar - have students share pattern observations for the month

**Every Day Counts**  
 Update All  
 Introduce  
 • February Calendar (see p. 58)  
 Discuss  
 • Counting Tape - how many days until Day 100?

**Every Day Counts**  
 Update All  
 Introduce  
 • Measurement for February \*  
 Discuss  
 • Daily Depositor (you will need 450 straws or stirrers this month)  
 • Coin Counter

**Every Day Counts**  
 Introduce the 3-D shape graph (from March calendar - skip ahead and do this now to reinforce 3-D shapes)  
 Update All and Discuss:  
 • Measurement (Refer to p. 62 for "Discussion for the Sixth of the Month").

**Every Day Counts**  
 Update all  
 Discuss  
 • Graph: Introduce and discuss a second of the 4 different 3-D shapes  
 • Daily Depositor  
 • Calendar - predict the pattern

**Whole Group Lessons**  
 Investigation 2, Session 5  
 Quick Images: Rectangular Arrays (p. 62-63) *10 min.*  
 • Introduce Rectangle Riddles - a new Choice Time activity, p. 64 *10 min.*

**Whole Group Lessons**  
 Investigation 2, Session 6  
 • Describing Rectangles (p. 66-67) *25-30 min.*  
 • **Assessment**  
 Picturing a Rectangle (p. 68-71) *25-30 min.*

**Whole Group Lessons**  
 Investigation 3, Session 1  
 • Half & Half Rectangles (p. 74-76) *15 min.*  
 • Introduce 2 new Choice Time activities: Half & Half Rectangles and Halves of Geoblocks (p. 76-77) *10 min.*

**Whole Group Lessons**  
**Pocket Day**  
 • Refer to notes on pages 119-122 for description of the routine and its variations *30 min.*  
 Investigation 3, Session 2  
 • Introduce another new Choice Time activity: Halves & Not Halves (p. 78) *10 min.*

**Whole Group Lessons**  
**Catch-Up Day**  
 Spend 10-15 minutes today on another "measure hunt" with students looking for objects of a given length, locating them, and then measuring with a ruler.

**Choice Time**  
 • Describing Rectangles (p. 58)  
 • How Many Rectangles? (p. 58)  
 • Rectangle Riddles (p. 64)  
 • On Computer Activity: Growing Rectangles (p. 64)  
*50 min.*

**Choice Time**

**Choice Time**  
 • Rectangle Riddles (p. 64)  
 • Half & Half Rectangles (p. 77-78)  
 • Halves of Geoblocks (p. 78)  
*35 min.*

**Choice Time**  
 • Halves & Not Halves (p. 78)  
*20 min.*

**Choice Time**

**Homework**  
 Extend Your Thinking, page 12

**Homework**

**Homework**  
 • Half & Half Rectangles - Student Sheet 16 (p. 95, see p. 79 in the teachers guide for instructions.)

**Homework**  
 • Things That Come in Halves - Student Sheet 22

**Homework**

**Teacher Support**

**Teacher Support**

**Teacher Support**  
 Read the Teacher Note on p. 80 and the Dialogue Box on p. 81 prior to today's lesson.

**Teacher Support**

**Teacher Support**

Day 22	Day 23	Day 24	Day 25	Day 26
<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>• Graph: Introduce and discuss the third of the 4 different 3-D shapes*</li> <li>• Daily Depositor</li> <li>• Measurement</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>• Graph: Introduce and discuss the last of the 4 different 3-D shapes</li> <li>• Daily Depositor</li> <li>• Coin Counter</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All: Discuss:</p> <ul style="list-style-type: none"> <li>• Daily Depositor</li> <li>• Measurement</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All and Discuss:</p> <ul style="list-style-type: none"> <li>• Calendar - symmetry of shapes</li> <li>• Shape Graph - have kids locate examples of each shape in the classroom and share their examples from home</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>• Daily Depositor</li> <li>• Counting Tape / Today's Number</li> <li>• Coin Counter</li> </ul>
<p><b>Whole Group Lessons</b></p> <p>Investigation 3, Session 3</p> <ul style="list-style-type: none"> <li>• Introducing Shape Halves (p. 82-83)</li> </ul> <p><i>25-30 min.</i></p>	<p><b>Whole Group Lessons</b></p> <p>Investigation 3, Session 4</p> <ul style="list-style-type: none"> <li>• Quick Images: Dots in Two 10-Frames (p. 126)</li> </ul> <p><i>10-15 min.</i></p>	<p><b>Whole Group Lessons</b></p> <p>Investigation 3, Session 5</p> <ul style="list-style-type: none"> <li>• Class Discussion: Which Rectangles Make Halves? (p. 84-85) <i>20 min.</i></li> </ul> <p>Do this <b>after</b> Choice Time today.</p>	<p><b>Whole Group Lessons</b></p> <p>Investigation 3, Session 6</p> <ul style="list-style-type: none"> <li>• Fraction Flags (p. 86-88) <i>60 min.</i></li> </ul>	<p><b>Whole Group Lessons</b></p> <p>Investigation 3, Session 7</p> <p>Do some or all of Investigation 3, Sessions 7 &amp; 8, Fourths and Thirds of Rectangles (p. 89-92) and/or Thirds and Fourths Flags (p. 93)</p>
<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>• Rectangle Riddles (p. 64)</li> </ul> <p><b>Teacher Checkpoint, p.78-79</b></p> <ul style="list-style-type: none"> <li>• Half &amp; Half Rectangles (p. 77-78)</li> <li>• Halves &amp; Not Halves (p. 78)</li> <li>• Shape Halves (p. 84)</li> </ul> <p><i>30-35 min.</i></p>	<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>• Half &amp; Half Rectangles (p. 77-78)</li> <li>• Halves &amp; Not Halves (p. 78)</li> <li>• Shape Halves (p. 84)</li> <li>• Halves of Geoblocks (p. 78)</li> </ul> <p><i>45 min.</i></p>	<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>• Rectangle Riddles</li> <li>• Half &amp; Half Rectangles</li> <li>• Halves &amp; Not Halves</li> <li>• Shape Halves</li> </ul> <p><i>40 min.</i></p>	<p><b>Choice Time</b></p>	<p><b>Choice Time</b></p>
<p><b>Homework</b></p>	<p><b>Homework</b></p> <p>Designing Shapes That Can Be Cut in Half, Student Sheet 23</p>	<p><b>Homework</b></p> <p>Tile Fractions (MP16c)</p>	<p><b>Homework</b></p> <ul style="list-style-type: none"> <li>• Half &amp; Half Flags - Student Sheets 24 and 16</li> </ul>	<p><b>Homework</b></p> <p>Extend Your Thinking, p. 12</p>
<p><b>Teacher Support</b></p> <p>* Every Day Counts 3-D Graph: Send home a letter asking families to collect and send in examples of the 4 different 3-D shapes so you can begin graphing next week.</p>	<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p>

Day 27	Day 28	Day 29	Day 30	Day 31
<p><b>Every Day Counts</b></p> <p>Update All Discuss</p> <ul style="list-style-type: none"> <li>• Shape Graph - share any new examples from home</li> <li>• Measurement</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All Discuss:</p> <ul style="list-style-type: none"> <li>• Calendar (have students share pattern observations)</li> <li>• Counting Tape</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All: Discuss:</p> <ul style="list-style-type: none"> <li>• Daily Depositor</li> <li>• Counting Tape</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All: Discuss:</p> <ul style="list-style-type: none"> <li>• Counting Tape</li> <li>• Measurement</li> </ul>	<p><b>Every Day Counts</b></p> <p>Update All Discuss:</p> <ul style="list-style-type: none"> <li>• Calendar</li> <li>• Daily Depositor (See Helpful Hint about making new 100)</li> </ul>
<p><b>Whole Group Lessons</b></p> <p>Investigation 4, Session 1</p> <ul style="list-style-type: none"> <li>• Symmetry in the World (p. 96-98)</li> </ul> <p>If you have a large-screen display, do this activity on the computer. If not, do the version of the lesson described on p. 98. <i>15-20 min.</i></p> <ul style="list-style-type: none"> <li>• Introducing Geoblock Buildings (p. 98) <i>5-10 min.</i></li> </ul>	<p><b>Whole Group Lessons</b></p> <p>Use or Look for a Pattern Problem 33 (Problem Solver, p. T 65-66) <i>20 min.</i></p> <p>Investigation 4, Session 2</p> <p>After Choice Time today, have students share some of their geoblock buildings. (p. 101) <i>10 min.</i></p>	<p><b>Whole Group Lessons</b></p> <p>Investigation 4, Session 3</p> <ul style="list-style-type: none"> <li>• Mirror Designs (p. 104-106) <i>20 min.</i></li> </ul> <ul style="list-style-type: none"> <li>• Introducing Copy Tiles (p. 106) <i>10 min.</i></li> </ul>	<p><b>Whole Group Lessons</b></p> <p>Investigation 4, Session 5</p> <ul style="list-style-type: none"> <li>• Introducing Fold and Cut (p. 109-110) <i>10 min.</i></li> </ul>	<p><b>Whole Group Lessons</b></p> <p>Investigation 4, Session 4</p> <ul style="list-style-type: none"> <li>• Quick Images Using Two 10-Frames (see “Start Up” activities on p. 104) <i>10 min</i></li> </ul>
<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>• Mirrors Activity (p. 99) Introduce to small groups at the computer over the next few days if you don’t have large screen display.</li> <li>• Pattern Block Symmetry (p. 99)</li> <li>• Geoblock Buildings (p.99) <i>30 min.</i></li> </ul>	<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>• Shape Halves (p. 84)</li> <li>• Mirrors Activity (p. 99)</li> <li>• Pattern Block Symmetry (p. 99)</li> <li>• Geoblock Buildings (p.99) <i>30 min.</i></li> </ul>	<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>• Mirrors Activity</li> <li>• Pattern Block Symmetry</li> <li>• Geoblock Buildings</li> <li>• Mirror Designs (p. 107)</li> <li>• Copy Tiles (p. 107) <i>30 min.</i></li> </ul>	<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>• Mirrors Activity</li> <li>• Pattern Block Symmetry</li> <li>• Geoblock Buildings</li> <li>• Mirror Designs</li> <li>• Copy Tiles</li> <li>• Fold and Cut (p. 111) <i>50 min.</i></li> </ul>	<p><b>Choice Time</b></p> <ul style="list-style-type: none"> <li>• Mirrors Activity</li> <li>• Pattern Block Symmetry</li> <li>• Geoblock Buildings</li> <li>• Mirror Designs</li> <li>• Copy Tiles <i>50 min</i></li> </ul>
<p><b>Homework</b></p> <ul style="list-style-type: none"> <li>• Looking for Symmetry, Student Sheet 25</li> </ul>	<p><b>Homework</b></p>	<p><b>Homework</b></p> <ul style="list-style-type: none"> <li>• Home Connection 15 (MP16a &amp; 16b), “Is It Symmetrical?”</li> </ul>	<p><b>Homework</b></p> <p>Fold and Cut, Student Sheet 27</p>	<p><b>Homework</b></p> <ul style="list-style-type: none"> <li>• Exploring Mirror Symmetry Student Sheet 26</li> </ul>
<p><b>Teacher Support</b></p> <p>Read Teacher Note on p. 102 and the Dialogue Box on p. 103 prior to today’s lesson.</p>	<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p>	<p><b>Teacher Support</b></p>

## Day 32

## Day 33

## Day 34

## Day 35

Every Day Counts	Every Day Counts	Every Day Counts	Every Day Counts
Update All Discuss: • Daily Depositor • 3-D Shape Graph	Update All: Discuss: • Daily Depositor • Measurement	Update All Discuss: • Daily Depositor • Calendar - see discussion for end of the month	
Whole Group Lessons	Whole Group Lessons	Whole Group Lessons	Whole Group Lessons
Investigation 4, Session 6 • Class Discussion: Is It Symmetrical? (p. 112) <i>20 min.</i> Do this <b>after</b> Choice Time today.	Investigation 4, Session 7 • Quick Images: Dot Arrays (p. 126, 204) <i>10-15 min.</i> • <b>Assessment</b> Symmetrical Pictures (p. 113-114) <i>45 min.</i>	Investigation 4, Session 7, cont'd. <b>Assessment:</b> Symmetrical Pictures (p. 113-114) Give children a chance to finish the artwork and writing they started yesterday. You might also take time to have them choose work from their folders to save (see p. 115).	Catch-up Day
Choice Time	Choice Time	Choice Time	Choice Time
Homework	Homework	Homework	Homework
Teacher Support	Teacher Support	Teacher Support	Teacher Support

# Investigations: Shapes, Halves, and Symmetry

## Alignment to 2nd Grade Expectations

	Grade Level Expectation √ = Report Card Language	Activities that Address Expectations	Assessment Activity
<b>NUMBER SENSE &amp; NUMERATION</b>	<p><b>Understands, models, reads, writes, orders and compares wholes, halves, and fourths</b></p>	<p>Ordering Rectangles, p. 52 Half &amp; Half Rectangles, p. 77 Halves of Geoblocks, p. 78 Halves &amp; Not Halves, p. 78 Fraction Flags, p. 86  Fourth &amp; Thirds of Rectangles, p. 89  Thirds &amp; Fourth Flags, p. 93</p>	<p>“Which is Biggest?” papers <b>Teacher Checkpoint Halves</b>, p. 78-79 Student Sheets 16, 21, 23, 24  Tile Fractions, MP16c  Student Sheet 16</p>
	<p><b>Can characterize a number as odd or even</b></p>	<p>Half &amp; Half Rectangles, p. 77 Halves &amp; Not Halves, p. 78</p>	<p>End of Unit Assessment</p>
~~~~~			
<b>COMPUTATION</b>	<p><b>Solves multiplication and division story problems with manipulatives, pictures, and/or numbers</b></p>	<p>Build a Building, p. 41 Rectangle Riddles, p. 64</p>	<p>Student Sheet 12 Student Sheets 19-20</p>
	<p><b>Is fluent with addition and subtraction facts to 10.</b> √ Fluent with addition and subtraction facts to 10.</p>	<p>Quick Images with 10 frames</p>	<p>Teacher observation and/or record of student work in math journal or on separate paper</p>
	<p><b>Knows and applies strategies to solve addition and subtraction facts to 18.</b> √ Knows and applies strategies to solve addition and subtraction combinations to 18.</p>	<p>Quick Images with dots and 10 frames Today’s Number How Many Pockets?</p>	<p>Record of student work in math journal or on separate paper (may be done occasionally as a checkpoint).</p>
~~~~~			
<b>GEOMETRY</b>	<p><b>Recognizes, describes, compares, classifies, and draws the following 2-dimensional shapes: square, triangle, rectangle, circle, trapezoid, hexagon, rhombus, and parallelogram</b></p> <p>√ Recognizes, describes, compares, classifies and draws 2-dimensional shapes.</p>	<p>Sorting Shape Cards, p. 7 Guess My Shape Rule, p. 46</p>	<p>Shape Card Posters, p. 9 Writing, “What is a rectangle?” p. 49 Student Sheet 14</p>



# GEOMETRY

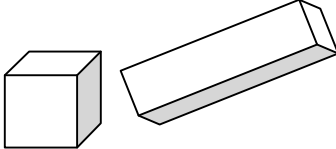
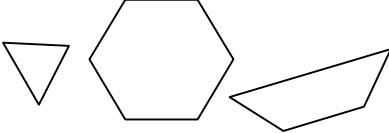

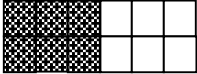

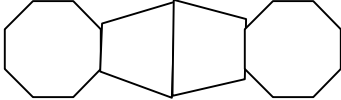
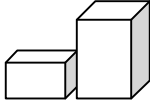
Grade Level Expectation	Activities	Assessment
<p><b>Recognizes and describes the following 3-dimensional shapes: cube, sphere, rectangular prism, cylinder, and pyramid.</b></p> <p>√ Recognizes and describes 3 - dimensional shapes.</p>	<p>Build the Geoblock, p. 19</p> <p>3-D Shape Hunt, MP15</p>	<p>Teacher Observation – record on checklist (i.e. +, √, or –) on an ongoing basis</p>
<p><b>Identifies and constructs simple designs that are symmetrical.</b></p> <p>√ Identifies and constructs designs that are symmetrical</p>	<p>Shape Halves, p. 84</p> <p>Pattern Block Symmetry, p. 99</p> <p>Geoblock Buildings, p. 99</p> <p>Mirror Designs, p. 107</p> <p>Copy Tiles, p. 107</p> <p>Fold and Cut, p. 111</p>	<p>Student Sheets 25, 26, 27</p> <p><b>Assessment</b> Symmetrical Pictures, p. 113</p> <p>End of Unit Assessment</p>
<p><b>Combines known shapes to create shapes.</b></p>	<p>Covering Pattern Blocks, p. 14</p> <p>Predict &amp; Cover, p. 18</p> <p>Build the Geoblock, p. 19</p>	<p>Student Sheet 8</p> <p><b>Teacher Checkpoint</b> Predict and Cover, p. 33-34</p> <p>Student Sheets 11 and 13</p>

# MEASUREMENT

<p><b>Uses non-standard units (e.g. interlocking cubes, pennies, tiles, etc.) to develop concepts of volume, weights, <u>area</u>, and perimeter.</b></p>	<p>Ordering Rectangles, p. 52</p>	<p>Teacher Observation</p>
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# Choice Time

Name \_\_\_\_\_

My Choices	Date
Predict and Cover	
Build the Geoblock 	
Solve Puzzles	
The Last Block 	
Build a Building 	
Half-and-Half Rectangles 	
How Many Rectangles? 	
Pattern Block Symmetry 	
Geoblock Buildings 	

## Shapes, Halves, and Symmetry

### Teacher Notes:

- 1. The focus is on naming the shapes and you do not want spelling to be an issue for students. If you have not been using a “math word wall” or a similar list of math vocabulary in your room, be sure that there is a list of geometry terms available to students as they work on the shape identification assessment.*
- 2. For the half-and-half rectangle task, you might make available color tiles to students who may want to rebuild the rectangle. How do students determine if it is half-and-half? Do they count the shaded and white squares and compare the two numbers? Do they take 8 squares of one color and 7 of another and rebuild the rectangle with all of one color together in order to visualize one half?*
- 3. Students have many opportunities in this unit to work with 2-dimensional pattern block shapes and the 3-dimensional geoblocks. As you observe them working, you might randomly ask them to name different shapes and note their responses on the shape checklist included in this notebook.*

Grade Level Expectations these assessments address:

- ◆ Recognizes, describes, compares, classifies, and draws the following 2-dimensional shapes: square, triangle, rectangle, circle, trapezoid, hexagon, rhombus, and parallelogram.
- ◆ Recognizes and describes the following 3-dimensional shapes: cube, sphere, rectangular prism, cylinder, and pyramid.
- ◆ Identifies and constructs simple designs that are symmetrical.
- ◆ Understands, models, reads, writes, orders, and compares wholes, halves, and fourths.
- ◆ Can characterize a number as odd or even.



**Geometry:** Recognizes and describes the following 3-dimensional shapes:

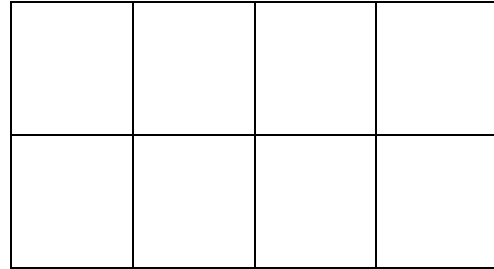
Student	Cube	Cylinder	Pyramid	Sphere	Rectangular prism

Name \_\_\_\_\_

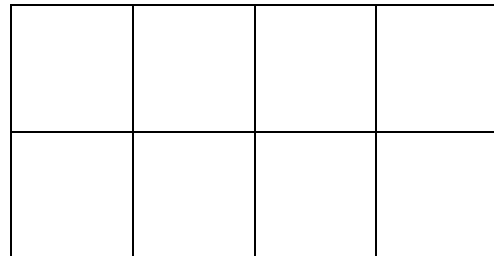
Date \_\_\_\_\_

You need a red, blue, and yellow crayon to color in the fractions shown below.

Color the tiles so that this rectangle is  $\frac{1}{2}$  red and  $\frac{1}{2}$  blue.



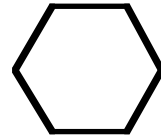
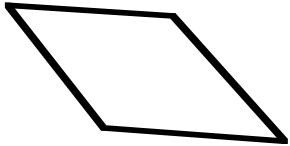
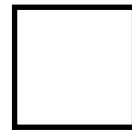
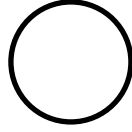
Color the tiles in this rectangle  $\frac{1}{4}$  red,  $\frac{1}{4}$  blue,  $\frac{1}{4}$  white, and  $\frac{1}{4}$  yellow.



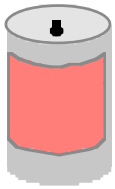
Name \_\_\_\_\_

Date \_\_\_\_\_

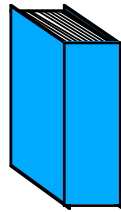
Name each of the 6 shapes shown below.



Draw a line from each shape to its name.



Picture of metronome goes here



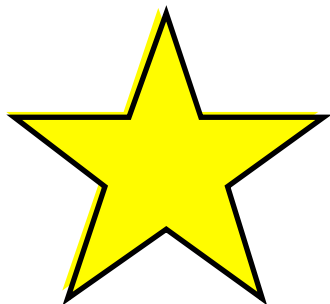
pyramid

cylinder

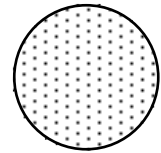
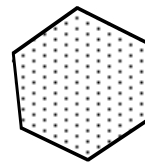
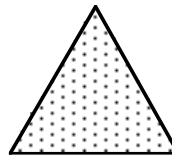
cube

rectangular prism

sphere



Draw a line of symmetry on the star.



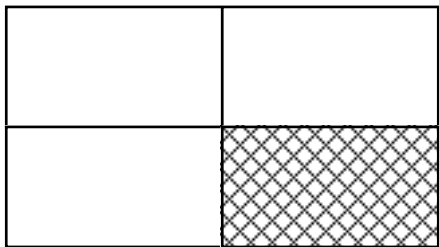
Solve the riddle. Cross out the pictures that do not match the clues. Write the name of the shape on the line.


I have less than 4 corners.  
I have straight sides.

\_\_\_\_\_

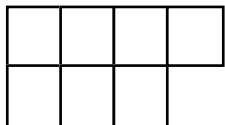
Name \_\_\_\_\_

Date \_\_\_\_\_



What fraction of this "Fraction Flag" is shaded with  ?

\_\_\_\_\_



Is 7 an even or odd number? \_\_\_\_\_

How do you know? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



