Teacher’s Guide to Using the
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Teacher’s Guide to Using the
Chapter 12 Resource Masters

The Chapter 12 Resource Masters includes the core materials needed for Chapter 12. These materials include worksheets, extensions, and assessment options. The answers for these pages appear at the back of this booklet.

All of the materials found in this booklet are included for viewing and printing on the TeacherWorks Plus™ CD-ROM.

Chapter Resources

**Graphic Organizer** (page 2) This master is a tool designed to assist students with comprehension of grade-level concepts. You can use this graphic organizer in coordination with the appropriate lesson. While the content and layout of these tools vary, their goal is to assist students by providing a visual representation from which they can learn new concepts.

**Student Glossary** (page 3) This master is a study tool that presents the key vocabulary terms from the chapter. You may suggest that students highlight or star the terms they do not understand. Give this list to students before beginning Lesson 12-1.

**Anticipation Guide** (page 4) This master is a survey designed for use before beginning the chapter. You can use this survey to highlight what students may or may not know about the concepts in the chapter. If feasible, interview students in small groups, asking them the interview questions in the guide. There is space for recording how well students answer the questions before they complete the chapter. You may find it helpful to interview students a second time, after completing the chapter, to determine their progress.

**Game** (page 5) A game is provided to reinforce chapter concepts and may be used at appropriate times throughout the chapter.

Resources for Lessons

**Reteach** Each lesson has an associated Reteach worksheet. In general, the Reteach worksheet focuses on the same lesson content but uses a different approach, learning style, or modality than that used in the Student Edition.

**Skills Practice** The Skills Practice worksheet may be helpful in providing additional practice of the skill taught in the lesson. Spaces for students’ answers are provided on the worksheet.

**Homework Practice** The Homework Practice worksheet provides an opportunity for additional practice. Spaces for students’ answers are provided on the worksheet.

**Enrich** The Enrich worksheet presents activities that extend the concepts of the lesson or offer a historical or multicultural look at the lesson’s concepts. Some enrichment materials are designed to widen students’ perspectives on the mathematics they are learning. These worksheets are written for use with all levels of students.

**Resources for Problem Solving Strategy Lessons** In recognition of the importance of problem-solving strategies, worksheets for problem-solving lessons follow a slightly different format. For problem-solving lessons, a two-page Reteach worksheet offers a complete model for choosing a problem-solving strategy. For each Problem Solving Strategy lesson, Reteach and Practice worksheets offer reinforcement of the strategy taught in the Student Edition lesson.
Assessment Options

The assessment masters in the Chapter 12 Resource Masters offer a wide variety of assessment tools for monitoring progress as well as final assessment.

**Individual Progress Checklist** This checklist explains the chapter's goals or objectives. Teachers can record whether a student's mastery of each objective is beginning (B), developing (D), or mastered (M). The checklist includes space to record notes to parents as well as other pertinent observations.

**Chapter Diagnostic Test** This one-page test assesses students' grasp of skills that are needed for success in the chapter.

**Mid-Chapter Test** This one-page chapter test provides an option to assess the first half of the chapter. It includes both multiple-choice and free-response questions.

**Oral Assessment** This two-page test consists of one page for teacher directions and questions and a second page for recording responses. Although this assessment is designed to be used with all students, the interview format focuses on assessing chapter content assimilated by ELL students. The variety of approaches includes solving problems using manipulatives as well as pencil and paper.

**Listening Assessment** This two-page assessment contains one page for teacher directions and one page for responses/recordings. This assessment, too, is suitable for all students but is designed primarily for use with students who may have difficulty reading test materials. The assessment directions progress in difficulty from simple at the beginning of the year to more extensive at the end of the year.

**Leveled Chapter Tests**

- **Form 1** assesses basic chapter concepts through multiple-choice questions and is designed for use with below-level students.
- **Form 2A** is designed for on-level students and is primarily for those who may have missed the Form 1 test. It may be used as a retest for students who received additional instruction following the Form 1 test.
- **Form 2C** is a free-response test designed for on-level students.
- **Form 2D** is written for students with a below-level command of the English language.

**Cumulative Standardized Test Practice**

This two-page test, aimed at on-level students, offers a page of multiple-choice questions and a page of free-response questions.

**End-of-Year Test** This four-page, free-response test is included with the resource materials for the last chapter of the Student Edition.

**Answers**

The answers for the Anticipation Guide and Lesson Resources are provided as reduced pages with answers appearing in black. Full size line-up answer keys are provided for the Assessment Masters.
A suggestion for how to use this organizer can be found in the answer pages at the back of this book.

<table>
<thead>
<tr>
<th>Listen to the Story</th>
<th>Show your Work</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tell a friend what you learned.
<table>
<thead>
<tr>
<th>are left</th>
<th>[Apple image] 2 are left.</th>
</tr>
</thead>
<tbody>
<tr>
<td>take away</td>
<td>[Block image] 5 - 3 = 2</td>
</tr>
</tbody>
</table>
Anticipation Guide

Before you begin Chapter 12, ask students the following questions. You may want to ask the same questions after students complete the chapter.

Pass out the Anticipation Guide. Have students look at the art as you read the statements aloud. If students agree with the statement, have them color the smiley face. If they disagree, have them color the frown face. Have students use color tiles to model the story.

**Preparation:** Color tiles are needed for this activity.

<table>
<thead>
<tr>
<th>Before Chapter</th>
<th>Statement</th>
<th>After Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>There are 6 bees. 2 bees fly away. Now there are 4 bees left.</td>
<td>![Smiley Face] ![Frown Face]</td>
</tr>
<tr>
<td>2</td>
<td>There are 4 trucks. 1 truck drives away. I can use 2 color tiles to show how many trucks are left.</td>
<td>![Smiley Face] ![Frown Face]</td>
</tr>
<tr>
<td>3</td>
<td>4 take away 2 is 2.</td>
<td>![Smiley Face] ![Frown Face]</td>
</tr>
<tr>
<td>4</td>
<td>6 take away 4 is 2.</td>
<td>![Smiley Face] ![Frown Face]</td>
</tr>
<tr>
<td>5</td>
<td>8 take away 3 is 4.</td>
<td>![Smiley Face] ![Frown Face]</td>
</tr>
<tr>
<td>6</td>
<td>There are 9 butterflies. 2 fly away. I need to draw 9 butterflies and cross out 1 butterfly to show how many are left.</td>
<td>![Smiley Face] ![Frown Face]</td>
</tr>
</tbody>
</table>
Chapter 12 Game

Empty the Orange Basket

Ready

You will need:
- small basket
- 10 marbles or tennis balls
- number cube

Set

Put the 10 marbles or balls into the basket to represent oranges.

GO!

1. Have player 1 toss the number cube, take away that number of “oranges” from the basket, and tell how many are left.
2. Take turns tossing and removing oranges from the basket. If a player tosses a number that cannot be taken from the basket, she or he loses a turn.
3. Empty the basket completely and win the game.
4. Refill the basket and play again.

Note: This game will go very quickly with only 10 marbles. You may want to extend the activity by providing additional marbles, giving each player 10 marbles, or by having students get the exact number to empty the basket.
Subtraction Stories

Preparation: Counters are needed for this activity.

Listen to the stories. Use counters to show how many children. Draw an X to show children who leave. Count to show how many children are left.

1. There are 4 children sitting. 2 children leave. How many are still sitting?
2. There are 5 children sitting. 1 child leaves. How many are left?
3. There are 5 children sitting. 3 children leave. How many children are sitting now?
Skills Practice

Subtraction Stories

Preparation: Counters are needed for this activity.

Listen to the stories. Place counters on the playground to show how many children. Remove counters to show children who leave. Count the counters to show how many are left.

1. There are 5 children on the swings. 2 children leave. How many are left swinging?
2. There are 4 children in the sandbox. 1 child leaves. How many are left in the sandbox?
3. There are 5 children on the slide. 3 children slide down. How many are left on the slide now?
Preparation: Buttons or coins are needed for this activity.

Listen to the stories. Place buttons in or below the fish tank to show how many turtles. Remove buttons to show turtles that climb out. Count the buttons to show how many are left.

1. There are 4 turtles in the tank. 1 turtle climbs out. Tell how many turtles are left.
2. There are 5 turtles in the tank. 4 turtles climb out. Tell how many are left.
3. There are 3 turtles in the tank. 1 turtle climbs out. Tell how many turtles are left.
Jim, Ann, and Tom are collecting canned food. They will give the cans to the homeless shelter. Listen to the stories. Draw cans in the blank space to help you count.

1. Jim collects 6 cans. Draw 6 cans under Jim’s name. Write the number.

2. Ann collects 1 can less than Jim. Draw Jim’s 6 cans under Ann. Then cross off 1 can to show how many Ann collects. Write that number.

3. Tom collects 2 cans less than Jim. Draw Jim’s 6 cans under Tom’s name. Then cross off 2 cans to show how many Tom collects. How many cans did Tom collect?
Preparation: Connecting cubes and index cards numbered 1–4 are needed for this activity.

Place connecting cubes to show how many. Show that card. Write how many are left.

1. There are 6 ducks. Place a cube for each duck. 3 swim away. Take off a cube for each duck that swims away. Count the cubes. How many ducks are left?

2. There are 4 frogs. Place a cube for each frog. 2 hop away. Take off a cube for each frog that hops away. Count the cubes. How many frogs are there now?

3. There are 7 birds. Place a cube for each bird. 4 fly away. Take off a cube for each bird that flies away. Count the cubes. How many birds are there now?
Skills Practice

Use Objects to Subtract

Preparation: Color tiles are needed for this activity.

Place color tiles to model the story. Write the number that shows how many are left.

1. There are 5 butterflies. 1 flies away. How many butterflies are there now?

2. There are 4 bees. 3 fly away. How many bees are left?

3. There are 3 caterpillars. 1 crawls away. How many caterpillars are left?

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Preparation: Coins are needed for this activity.

Use coins to model the story. Write the number that shows how many are left.

1. There are 7 cars. 2 drive away. How many cars are there now?
2. There are 5 bicycles. 3 ride away. How many bicycles are there now?
3. There are 4 trucks. 3 drive away. How many trucks are left?
Birthday Counts

1. Nelly has a jar with 10 marbles in it. She takes out 4 marbles to play with. How many marbles are left in the jar? Write the number.

2. Josie and her dad take a nature walk on her birthday every year. This year, they see a log with 4 frogs on it. 1 frog hops away. How many frogs are still on the log?

3. Isaac decorates a cake for his sister. He can’t remember how old she is, so he puts 10 candles on her cake. His mom says his sister is 7. How many candles should Isaac take off? X those candles. Count the candles that are left. Write the number.
Reteach
Subtract from 4 and 5

**Preparation:** Scissors and glue are needed for this activity.

1. There are 5 birds on the branch. Cut out 5 birds. Glue them on the branch. One bird flies away. Draw an X on 1 bird. Count the birds to show how many are left. Write the numbers.

2. There are 4 squirrels on the branch. Cut out 4 squirrels. Glue them on the branch. 2 squirrels climb down. Draw an X on 2 squirrels. Count the squirrels to show how many are left. Write the numbers.
Skills Practice

Subtract from 4 and 5

1. Use counters to model the subtraction story. Write the numbers.

2. Make your own subtraction story. Use counters to model your story. Write the numbers.

**Preparation:** Counters are needed for this activity.
Homework Practice

Subtract from 4 and 5

1. 

____  ____  ____ take away 3 is ____

2. 

____  ____  ____ take away 2 is ____

3. 

____  ____  ____  ____ take away ____ is ____

Preparation: Pennies are needed for this activity.

1 2 Use pennies to model the subtraction story. Write the numbers.
3 Make your own subtraction story. Use pennies to model your story. Write the numbers.
Look at each hand. It has 5 fingers. You can use the hand to subtract from 5. You can use both hands to subtract from 10.

1. 5 fingers take away 0 fingers is still 5 fingers. Trace the numbers.
2. 3. 4. Use the hands to write 3 more subtraction problems.
Preparation: Counters are needed for this activity.

1. There are six crackers on the table. Use counters to show. Draw a circle for each cracker. 3 crackers are eaten. Draw an X on 3 crackers. Count the circles to show how many are left. Write the numbers.

2. There are 7 pieces of toast on the table. Use counters to show. Draw a square for each piece. 3 pieces of toast are eaten. Draw an X on 3 pieces. Count the squares to show how many are left. Write the numbers.

3. Create your own subtraction story using 6. Use counters to show. Draw pictures to show how many. Draw an X to show how many are gone. Then write the numbers to show how many are left.
Skills Practice

Subtract from 6 and 7

1. Use the picture to answer the subtraction story. Draw an X on vegetables that are taken away. Write the numbers.

2. Create your own subtraction story. Use the picture to show your story. Write the numbers.

Option: Use connecting cubes to model subtraction stories.
Homework Practice

Subtract from 6 and 7

1. ___________ take away 5 is _________

2. ___________ take away 3 is _________

3. ___________ take away ______ is _______

Preparation: Dry cereal or macaroni is needed for this activity.

1. Use cereal to model the subtraction story. Write the numbers.
2. Create your own subtraction story. Use cereal to model your story. Write the numbers.
Enrich

Finish the Drawing

1. Use the picture to show the subtraction story. Write the number.

6 take away ____ is 3

2. Draw frogs on the lilypad to model the subtraction story. Write the number.

7 take away ____ is 6

3. Create your own subtraction story. Draw a picture to model your story. Write the numbers.

7 take away ____ is ____

1 2 3
Reteach

Subtract from 8 and 9

1

There are 5 apples in the tree. Cut out 3 more apples to make 8. Glue them on the branch. Count the apples and trace the number. 2 apples drop to the ground. Draw an X on 2 apples. Count the apples to show how many are left. Trace the number.

2

There are 5 cherries in the tree. Cut out 4 cherries to make 9. Glue them on the branch. Count the cherries and write the number. 6 cherries are picked. Draw an X on 6 cherries. Count the cherries to show how many are left. Write the number.

Preparation: Scissors and glue are needed for this activity.
Preparation: Color tiles are needed for this activity.

1. Use color tiles to model the subtraction story. Write the numbers.
2. Create your own subtraction story. Use color tiles to model your story. Write the numbers.
Homework Practice

Subtract from 8 and 9

Preparation: Buttons are needed for this activity.

1. Use buttons to model the subtraction story. Write the numbers.
2. Create your own subtraction story. Use buttons to model your story. Write the numbers.
Enrich

Break the Code

1. \( \triangle = 1 \) \( \bigcirc = 2 \) \( \star = 3 \) \( \downarrow = 4 \) \( \star = 5 \) \( \diamond = 6 \) \( \square = 7 \) \( \bigcirc = 8 \) \( \uparrow = 9 \)

1. \( \downarrow \) take away \( \star \) is ____
   9  \( \bigcirc \) 5  4
   \( \square \) take away \( \diamond \) is ____

2. \( \bigcirc \) take away \( \diamond \) is ____
   \( \bigcirc \)  \( \diamond \)  \( \bigcirc \)  4
   \( \bigcirc \) take away \( \square \) is ____

3. \( \bigcirc \) take away \( \square \) is ____
   \( \bigcirc \)  \( \square \)  4
   \( \bigcirc \) take away \( \bigcirc \) is ____

1 2 3 Break the code! Look at each shape. Use the code to write the number below the shape. Then solve the problem. Write the answer as a number and its code shape. The first one is done for you.
Reteach (1)

Problem-Solving Strategy: Draw a Picture

1. 8 socks go into the wash. 3 socks are lost. How many are left?

2. 9 students bring an umbrella to school. 2 students leave them at school. How many umbrellas go home?

3. Tony blows up 7 balloons. 1 balloon pops. How many are left?
Problem-Solving Strategy: Draw a Picture

Draw the objects in the subtraction story.

1. 7 buttons are on a shirt. 2 fall off. How many are left?
2. 9 shirts are in a drawer. 5 shirts are worn. How many are left?
3. Sandra has 8 hats. Nicole borrows 1 hat. How many are left?
Skills Practice

Problem-Solving Strategy: Draw a Picture

1. Draw a picture in the box to show how many. Draw an X on pictures to show subtraction. Count the pictures. Write the numbers.

   8 pears are on a plate. 3 pears get eaten. How many are left?
   9 oranges are on a plate. 5 oranges are squeezed into juice. How many are left?
   7 strawberries are on a plate. 6 are eaten. How many are left?
Draw a picture in the box to show how many. Draw an X on pictures to show subtraction. Count the pictures. Write the numbers.

1. 7 birds are on a fence. 3 birds fly away. How many are left?
2. 8 dogs are barking. 5 dogs stop. How many are left barking?
3. 9 fish are swimming together. 2 fish swim away. How many are left?
Draw objects in the picture to model the subtraction story. Finish the subtraction sentence to solve.

1. 9 birds are in a nest. 2 fly away. How many are left?
2. 8 petals are on a flower. Some fall off. 6 are left. How many fell off?
3. There are some leaves on a tree. 3 fall off. There are 6 left. How many leaves were on the tree?
# Individual Progress Checklist

<table>
<thead>
<tr>
<th>Mastery Level</th>
<th>Lesson</th>
<th>Learning Goals</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>B D M</td>
<td>12-1</td>
<td>Model subtraction as taking away from or separating sets of objects.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12-2</td>
<td>Use concrete objects to solve subtraction problems.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12-3</td>
<td>Use concrete objects and pictures to show ways to subtract from 4 and 5.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12-4</td>
<td>Use concrete objects and pictures to show ways to subtract from 6 and 7.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12-5</td>
<td>Use concrete objects and pictures to show ways to subtract from 8 and 9.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12-6</td>
<td>Draw pictures to show ways to subtract from 7, 8, and 9.</td>
<td></td>
</tr>
</tbody>
</table>

B = Beginning; D = Developing; M = Mastered

**Note to Parents**

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Diagnostic Test

Are you ready for chapter 12?

Circle the group that shows less.

1

2

3

4

Grade K

32

Chapter 12
Mid-Chapter Test

Preparation: Color tiles are needed for this assessment. Place color tiles to show how many. Write the number.

1. There are 6 books. Place 6 color tiles. 2 books are taken. Take away 2 color tiles. How many are left? [Lesson 12.1]

2. There are 5 birds. 3 birds fly away. How many are there now? [Lesson 12.1]

3. There are 7 penguins. 4 penguins swim away. How many are left? [Lesson 12.2]
Oral Assessment

Directions: This test targets those students who may have developing verbal skills—both oral and written. Ask the questions below and have students record their answers, or record the answers they supply. For yes or no questions, have students circle a smiley face for “yes” and a frown face for “no.”

Preparation: Board access is needed for this assessment.

1. On the board, draw 5 circles. Say, **There are 5 circles.** Erase 2 circles. Say, **I erased 2 circles. How many are left?**

2. On the board, write the numbers 5 and 3, followed by a blank line. Say, **There are 5 dogs in the park. 3 dogs go home. Are there 2 dogs left in the park?**

3. On the board, draw 4 shirts. Draw an X on 3 shirts. Ask, **What is 4 take away 3?**

4. On the board, draw 5 kites. Draw an X on 2 kites. Ask, **What is 5 take away 2?**

5. On the board, draw 6 watermelons. Draw an X on 4 watermelons. Ask, **What is 6 take away 4?**

6. On the board, draw 7 baseball bats. Draw an X on 2 bats. Ask, **What is 7 take away 2?**

7. On the board, draw 8 toy tops. Draw an X on 4 tops. Ask, **What is 8 take away 4?**

8. On the board, draw 9 butterflies. Draw an X on 2 butterflies. Ask, **What is 9 take away 2?**

9. Say, **There are 8 squirrels in the tree. 3 squirrels climb down. I should draw 6 squirrels to show how many are left.**

10. Say, **There are 7 peas on a plate. 4 peas get eaten. I should draw 3 peas to show how many are left.**

Notes and comments

__________________________________________________________________________
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**Preparation:** Color tiles are needed for this assessment.

1. There are 6 stars. Draw an X on 4 stars. Count how many stars are left. Write the number.

2. Place 5 color tiles below the number 5. Trace the tiles. Draw an X on 2 color tiles. Count how many tiles are left. Write the number.

3. There are 4 eggs in the nest. 1 egg hatches. Draw an X on 1 egg. Count how many eggs are left. Write the number.

4. There are 8 pieces of fruit. Place 8 color tiles. 4 pieces are eaten. Take off 4 color tiles. Draw an X on 4 pieces of fruit. How many pieces are left? Write the number.
Name ________________________________

Listening Assessment Response Sheet

1

* * * * *

2

5 take away 2 is ___

3

4

___

___

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___

___

___
Preparation: Color tiles are needed for this assessment.

Use color tiles to model the subtraction story. Circle the correct number.

1. There are 5 monkeys in a tree. 2 monkeys climb down. How many are left? [Lesson 12.1]
2. There are 4 planes. 2 planes take off. How many are left? [Lesson 12.2]
3. Circle the correct numbers. [Lesson 12.3]
Use color tiles to model the subtraction story. Circle the correct numbers. [Lessons 12.4, 12.5]

There are 8 peanuts in a bowl. 4 peanuts get eaten. How many are left? Circle the correct number. [Lesson 12.6]
**Preparation:** Color tiles are needed for this assessment.

Use color tiles to model the subtraction story. Circle the correct number.

1. There are 4 books on the shelf. 2 fall off. How many are left? [Lesson 12.1]
2. There are 5 school buses. 2 buses drive off. How many are left? [Lesson 12.2]
3. Circle the correct numbers. [Lesson 12.3]
4. Use color tiles to model. Circle the correct numbers. [Lessons 12.4, 12.5]

5. There are 7 boats in the lake. 2 boats sail off. How many are left? Circle the correct number. [Lesson 12.6]
Preparation: Color tiles are needed for this assessment.

Use color tiles to model the subtraction story. Write the correct number. [Lesson 12.2]

1. There are 6 hats on a rack. 1 hat falls off. How many are left? [Lesson 12.1]
2. 5 ants come out of an anthill. 4 ants go back in. How many are left outside? [Lesson 12.2]
3. Write the correct numbers. [Lesson 12.3]
Use color tiles to model. Write the correct numbers. [Lessons 12.4, 12.5]

4 There are 9 flowers in a bunch. Draw the flowers. 4 flowers get sold. Draw an X on sold flowers. How many are left? Write the number. [Lesson 12.6]
Chapter Test, Form 2D

Preparation: Color tiles are needed for this assessment.

Use color tiles to model the story. Write the correct number.

1. Dad has 4 ties on a tie rack. He takes 1 off to wear. How many are left? [Lesson 12.1]
2. There are 6 buckets filled with water. 2 buckets are dumped out. How many buckets of water are left? [Lesson 12.2]
3. Write the correct numbers. [Lesson 12.3]
Use color tiles to model. Write the correct numbers. [Lessons 12.4, 12.5]

There are 7 shirts in the dryer. Draw the shirts. 3 shirts get folded. Draw an X on folded shirts. How many are left in the dryer? Write the number. [Lesson 12.6]
Look at the first picture. Circle the group that is equal. [Lesson 1.5]

Circle the number that shows how many umbrellas. [Lesson 2.2]

There is more of one vegetable. Circle the vegetable that has more. [Lesson 4.7]

Count the ducks. Circle the graph that shows how many. [Lesson 5.1]
Name ______________________

Cumulative Test (continued)

5. Count the objects. Write the number. [Lesson 6.2]

6. Use the pictures to model the story. Write the numbers. [Lesson 12.5]

7. Circle the heavier animal. [Lesson 7.5]

8. Write the time showing on the clock. [Lesson 9.6]
End-of-Year Test

1. Look at the first picture. Circle the picture that is the same. [Lesson 1.2]

2. Draw the shape that could come next in the pattern. [Lesson 3.3]

3. Count the bananas. Color the squares to show how many. [Lesson 5.1]

4. Write the numbers in the correct order. [Lesson 2.8]
Circle the shorter animal. Draw an X on the taller animal. [Lesson 7.3]

Circle the group that shows longest to shortest. [Lesson 7.2]

Count the objects. Write the numbers. Circle the number that shows more. [Lesson 8.4]

Draw more basketballs to make 8. [Lesson 4.2]
9. Write a 1 below the activity that happens in the morning. Write a 2 below the activity that happens in the afternoon. Write a 3 below the activity that happens in the evening. [Lesson 9.1]

10. Count the flowers. Write the missing number. [Lesson 4.8]

11. Write the hidden number. [Lesson 6.7]

12. Count the ladybugs. Write the number. [Lesson 8.1]
13. How many corners does a square have? Write your answer. [Lesson 10.5]

14. Look at the solid figure. Draw the plane figure that matches the shaded side. [Lesson 10.3]

15. 3 squirrels are eating nuts. 2 more squirrels come. Use counters to add. How many squirrels in all? [Lesson 11.2]

16. Use counters to model the subtraction story. Use Xs to subtract. Write the correct numbers. [Lessons 12.4]
Name ____________________________

**Graphic Organizer**

*Two-Column Chart*

A suggestion for how to use this organizer can be found in the answer pages at the back of this book.

<table>
<thead>
<tr>
<th><strong>Listen to the Story</strong></th>
<th><strong>Show your Work</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>7 balloons are in the air. 3 balloons pop. How many are left?</td>
<td>![Balloons chart]</td>
</tr>
<tr>
<td>3 balloons are left.</td>
<td>![Balloons chart]</td>
</tr>
</tbody>
</table>

Johann has 6 toy cars. He lets his sister play with 3 of them. How many cars does Johann have left to play with?

| 6 toy cars | ![Toy cars chart] |
| 3 cars are left. | ![Toy cars chart] |

Tell a friend what you learned.

**Note to Teacher:** This organizer can help students understand and answer subtraction stories. Write two subtraction stories in the left side of the chart. Have students use the space on the right side of the chart to draw a picture to solve the subtraction story.

---

**Anticipation Guide**

Before you begin Chapter 12, ask students the following questions. You may want to ask the same questions after students complete the chapter.

Pass out the Anticipation Guide. Have students look at the art as you read the statements aloud. If students agree with the statement, have them color the smiley face. If they disagree, have them color the frown face. Have students use color tiles to model the story.

**Preparation:** Color tiles are needed for this activity.

<table>
<thead>
<tr>
<th><strong>Before Chapter</strong></th>
<th><strong>Statement</strong></th>
<th><strong>After Chapter</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>![Bees chart]</td>
<td>There are 6 bees. 2 bees fly away. Now there are 4 bees left.</td>
<td>![Bees chart]</td>
</tr>
<tr>
<td>![Trucks chart]</td>
<td>There are 4 trucks. 1 truck drives away. I can use 2 color tiles to show how many trucks are left.</td>
<td>![Trucks chart]</td>
</tr>
<tr>
<td>![Subtraction chart]</td>
<td>4 take away 2 is 2.</td>
<td>![Subtraction chart]</td>
</tr>
<tr>
<td>![Subtraction chart]</td>
<td>6 take away 4 is 2.</td>
<td>![Subtraction chart]</td>
</tr>
<tr>
<td>![Subtraction chart]</td>
<td>8 take away 3 is 4.</td>
<td>![Subtraction chart]</td>
</tr>
<tr>
<td>![Butterflies chart]</td>
<td>There are 9 butterflies. 2 fly away. I need to draw 9 butterflies and cross out 1 butterfly to show how many are left.</td>
<td>![Butterflies chart]</td>
</tr>
</tbody>
</table>
### Answers (Lesson 12-1)

**Preparation:** Counters are needed for this activity.

**Lesson 12-1**

1. **Subtraction Stories**
   - **There are 4 children sitting. 2 children leave.** How many are left sitting?
   - **There are 5 children sitting. 1 child leaves.** How many are left?
   - **There are 5 children sitting. 3 children leave.** How many children are sitting now?

**Skills Practice**

1. **Subtraction Stories**
   - **There are 5 children on the swings. 2 children leave.** How many are left swinging?
   - **There are 4 children in the sandbox. 1 child leaves.** How many are left in the sandbox?
   - **There are 5 children on the slide. 3 children slide down.** How many are left on the slide now?

**Check student’s work.**

**Back**

- Counters are needed for this activity.
- Listen to the stories. Place counters on the playground to show how many children. Remove counters to show children who leave. Count the counters to show how many are left.

**Front**

- There are 4 children sitting. 2 children leave. How many are left sitting?
- There are 5 children sitting. 3 children leave. How many children are sitting now?
- There are 5 children sitting. 1 child leaves. How many are left sitting?

**Check student’s work.**

**Back**

- Counters are needed for this activity.
- Listen to the stories. Draw counters to show how many children. Count the counters to show how many are left.

**Front**

- There are 5 children sitting. 2 children leave. How many are left sitting?
- There are 5 children sitting. 3 children leave. How many children are sitting now?
### Answers (Lesson 12-1)

#### Subtraction Stories

**Preparation:** Buttons or coins are needed for this activity. Place buttons in or below the fish tank to show how many turtles. Remove buttons to show turtles that climb out.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>There are 4 turtles in the tank. 1 turtle climbs out.</strong></td>
<td><strong>4</strong></td>
</tr>
<tr>
<td><strong>There are 5 turtles in the tank. 4 turtles climb out.</strong></td>
<td><strong>1</strong></td>
</tr>
<tr>
<td><strong>There are 3 turtles in the tank. 1 turtle climbs out.</strong></td>
<td><strong>2</strong></td>
</tr>
</tbody>
</table>

#### Count the Cans

**Jim:**
Jim collects 6 cans. Draw 6 cans under Jim's name. Write the number.

**Ann:**
Ann collects 1 can less than Jim. Draw Jim's 6 cans under Ann. Then cross off 1 can to show how many Ann collects. Write that number.

**Tom:**
Tom collects 2 cans less than Jim. Draw Jim's 6 cans under Tom's name. Then cross off 2 cans to show how many Tom collects. How many cans did Tom collect?

#### Enrich

**Count the Cans**
Jim, Ann, and Tom are collecting canned food. They will give the cans to the homeless shelter.

- Jim collects 6 cans.
- Ann collects 5 cans.
- Tom collects 4 cans.

### Check student’s work.

- Students should show how many cans are left after they are collected.
- Correct answers are:
  - **There are 4 turtles in the tank. 1 turtle climbs out.** → **4**
  - **There are 5 turtles in the tank. 4 turtles climb out.** → **1**
  - **There are 3 turtles in the tank. 1 turtle climbs out.** → **2**

**Enrich:**

- Students should draw the correct number of cans and cross off the correct number of cans to show how many cans are left.
- Correct answers are:
  - **Jim collects 6 cans.** → 6 cans drawn under Jim's name.
  - **Ann collects 1 can less than Jim.** → 5 cans drawn under Ann, with 1 can crossed off.
  - **Tom collects 2 cans less than Jim.** → 4 cans drawn under Tom's name, with 2 cans crossed off.
**Answers (Lesson 12-2)**

---

**Skills Practice**

**Lesson 12-2**

**Preparation:** Connecting cubes and index cards numbered 1–4 are needed for this activity.

Place connecting cubes to show how many. Write the number that shows how many are left.

**Problem:** There are 6 ducks. Place a cube for each duck. 3 swim away. Take off a cube for each duck that swims away.

**Check student’s work.**

There are 3 cubes left. How many ducks are left?

---

**Preparation:** Color tiles are needed for this activity.

Place color tiles to model the story. Write the number that shows how many are left.

**Problem:** There are 5 butterflies. 1 flies away.

**Check student’s work.**

There are 4 butterflies left. How many butterflies are left?

---

**Preparation:** Connecting cubes and index cards numbered 1–4 are needed for this activity.

Place connecting cubes to show how many. Write the number that shows how many are left.

**Problem:** There are 7 birds. Place a cube for each bird. 4 fly away. Take off a cube for each bird that flies away.

**Check student’s work.**

There are 3 cubes left. How many birds are left?
**Answers (Lesson 12-2)**

---

### Homework Practice

**Use Objects to Subtract**

1. **There are 7 cars. 2 drive away. How many cars are there now?**
   - Answer: 5 cars remain.

2. **There are 5 bicycles. 3 ride away. How many bicycles are there now?**
   - Answer: 2 bicycles remain.

3. **There are 4 trucks. 3 drive away. How many trucks are left?**
   - Answer: 1 truck remains.

4. **Nelly has a jar with 10 marbles in it. She takes out 4 marbles to play with. How many marbles are left in the jar? Write the number.**
   - Answer: 6 marbles remain.

5. **Josie and her dad take a nature walk on her birthday every year. This year, they see a log with 4 frogs on it. 1 frog hops away. How many frogs are still on the log?**
   - Answer: 3 frogs remain.

6. **Isaac decorates a cake for his sister. He can't remember how old she is, so he puts 10 candles on her cake. His mom says his sister is 7. How many candles should Isaac take off? X those candles. Count the candles that are left. Write the number.**
   - Answer: 3 candles remain.

---

**Enrich Birthday Counts**

**Lesson 12-2**

1. **Nelly has a jar with 10 marbles in it. She takes out 4 marbles to play with. How many marbles are left in the jar? Write the number.**
   - Answer: 6 marbles remain.

2. **Josie and her dad take a nature walk on her birthday every year. This year, they see a log with 4 frogs on it. 1 frog hops away. How many frogs are still on the log?**
   - Answer: 3 frogs remain.

3. **Isaac decorates a cake for his sister. He can't remember how old she is, so he puts 10 candles on her cake. His mom says his sister is 7. How many candles should Isaac take off? X those candles. Count the candles that are left. Write the number.**
   - Answer: 3 candles remain.

---

**Check student's work.**

**Preparation:**

Use objects to model the story. Write the number that shows how many are left. Use objects to model the story. Write the number that shows how many are left. Use objects to model the story. Write the number that shows how many are left.
Answers (Lesson 12-3)

Skills Practice

1. Subtract from 4 and 5

Check student's work.

2. 2 take away 1 is 1

Check student's work.

3. 3 take away 1 is 2

Check student's work.

4. 4 take away 2 is 2

Check student's work.

5. 5 take away 3 is 2

Preparation: Counters are needed for this activity.

6. Use counters to model the subtraction story. Write the numbers.

Make your own subtraction story. Use counters to model your story. Write the numbers.

Retake

Skills Practice

1. Subtract from 4 and 5

Check student's work.

2. 2 take away 1 is 1

Check student's work.

3. 3 take away 1 is 2

Check student's work.

4. 4 take away 2 is 2

Check student's work.

5. 5 take away 3 is 2

Preparation: Scissors and glue are needed for this activity.

There are 3 squirrels on the branch. Cut out 3 squirrels. Glue the squirrels on the branch. One squirrel climbs down. Draw an X on 1 squirrel. Count the squirrels to show how many are left. Write the numbers.

There are 5 birds on the branch. Cut out 5 birds. Glue the birds on the branch. One bird flies away. Draw an X on 1 bird. Count the birds to show how many are left. Write the numbers.

Check student's work. Check student's work. Check student's work.

Chapter 12
Lesson 12-3

Homework Practice

Subtract from 4 and 5

1. 4 take away 3 is 1

2. 5 take away 2 is 3

3. 4 take away varies is varies

Preparation: Pennies are needed for this activity.

1. Use pennies to model the subtraction story. Write the numbers.
2. Make your own subtraction story. Use pennies to model your story. Write the numbers.

Lesson 12-3

Enrich

Finger Fun

Look at each hand. It has 5 fingers. You can use the hand to subtract from 5. You can use both hands to subtract from 10.

1. 5 fingers take away 0 fingers is still 5 fingers. Trace the numbers.
2. 5 fingers take away 1 finger is __________.
3. 5 fingers take away 2 fingers is __________.
4. 5 fingers take away 3 fingers is __________.

Answers will vary.

Use the hands to write 3 more subtraction problems.

Grade K

Chapter 12

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**Reteach**

Subtract from 6 and 7

**Preparation:** Counters are needed for this activity.

1. There are six crackers on the table. Use counters to show. Draw a circle for each cracker. 3 crackers are eaten. Draw an X on 3 crackers. Count the circles to show how many are left. Write the numbers.

2. There are 7 pieces of toast on the table. Use counters to show. Draw a square for each piece. 3 pieces of toast are eaten. Draw an X on 3 pieces. Count the squares to show how many are left. Write the numbers.

3. Create your own subtraction story using 6. Use counters to show. Draw pictures to show how many. Draw an X to show how many are gone. Then write the numbers to show how many are left.

**Skills Practice**

Subtract from 6 and 7

1. Use the picture to answer the subtraction story. Draw an X on vegetables that are taken away. Write the numbers.

2. Use the picture to answer the subtraction story. Draw an X on vegetables that are taken away. Write the numbers.

3. Use the picture to answer the subtraction story. Draw an X on vegetables that are taken away. Write the numbers.

Option: Use connecting cubes to model subtraction stories.
**Answers (Lesson 12-4)**

**Homework Practice**

Subtract from 6 and 7

1. 6 take away 3 is 3
2. 7 take away 6 is 1
3. 7 take away 3 is 4
4. 7 take away varies is varies

**Check student’s drawings.**

Use the picture to show the subtraction story. Write the number.

**Enrich**

Finish the Drawing

Use cereal or macaroni to model the subtraction story. Write the numbers.

Create your own subtraction story. Use cereal to model your story. Write the numbers.

**Preparation:** Dry cereal or macaroni is needed for this activity.

Check student’s drawings.

Use cereal to model the subtraction story. Write the numbers.

Create your own subtraction story. Draw a picture to model your story. Write the numbers.

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**12-5 Reteach**

**Subtract from 8 and 9**

1. There are 5 apples in the tree. Cut out 3 more apples to make 8. Glue them on the branch. Count the apples and trace the number. 2 apples drop to the ground. Draw an X on 2 apples.

2. There are 5 cherries in the tree. Cut out 4 cherries to make 9. Glue them on the branch. Count the cherries and write the number. 6 cherries are picked. Draw an X on 6 cherries.

3. There are 9 shopping carts in the parking lot. Use 7 shopping carts to make 9. Glue them on the branch. Count the shopping carts and write the number. 2 shopping carts are left. Write the number.

**Preparation**: Scissors and glue are needed for this activity.

---

**12-5 Skills Practice**

**Subtract from 8 and 9**

1. There are 5 apples in the tree. Cut out 3 more apples to make 8. Glue them on the branch. Count the apples and write the number. 2 apples drop to the ground. Draw an X on 2 apples.

2. There are 5 cherries in the tree. Cut out 4 cherries to make 9. Glue them on the branch. Count the cherries and write the number. 6 cherries are picked. Draw an X on 6 cherries.

3. There are 9 shopping carts in the parking lot. Use 7 shopping carts to make 9. Glue them on the branch. Count the shopping carts and write the number. 2 shopping carts are left. Write the number.

**Preparation**: Color tiles are needed for this activity.

---

**Check student's work.**

1. 3 take away 2 is 5
2. 9 take away 6 is 3
3. 9 take away 7 is 2

---

**Check student's work.**

1. 8 take away 4 is 4
2. 9 take away 7 is 2
3. 9 take away varies is varies

**Preparation**: Use color tiles to model the subtraction story. Write the numbers.

---

**Check student's work.**

1. 3 take away 2 is 5
2. 9 take away 6 is 3
3. 9 take away varies is varies

**Preparation**: Create your own subtraction story. Use color tiles to model your story. Write the numbers.
**Answers (Lesson 12-5)**

**12-5 Homework Practice**

Subtract from 8 and 9

1. Take away 3 is 6
2. Take away 5 is 3
3. Take away 8 is 9

**Enrich**

Break the Code

Use buttons to model the subtraction story. Write the numbers.

Create your own subtraction story. Use buttons to model your story. Write the numbers.

**Break the Code!**

Look at each shape. Use the code to write the number below the shape. Then solve the problem. Write the answer as a number and its code shape. The first one is done for you.

1. =
2. =
3. =
4. =
5. =
6. =
7. =
8. =
9. =

**KNS2.1**

Take away is

Take away is

Take away is

Take away is

Take away is

Take away is
Reteach (1)

Problem-Solving Strategy: Draw a Picture

1. 8 socks go into the wash. 3 socks are lost. How many are left?

2. 9 students bring an umbrella to school. 2 students leave them at school. How many umbrellas go home?

3. Tony blows up 7 balloons. 1 balloon pops. How many are left?

Reteach (2)

Problem-Solving Strategy: Draw a Picture

1. 7 buttons are on a shirt. 2 fall off. How many left?

2. 9 shirts are in a drawer. 5 shirts are worn. How many are left?

3. Sandra has 8 hats. Nicole borrows 1 hat. How many are left?
Answers (Lesson 12-6)

Problem-Solving Strategy: Draw a Picture

Check student’s drawings.

Draw a picture in the box to show how many. Draw an X on pictures to show subtraction. Count the pictures. Write the numbers.

1. 8 pears are on a plate. 3 pears get eaten. How many are left?
2. 9 oranges are on a plate. 5 oranges are squeezed into juice. How many are left?
3. 7 strawberries are on a plate. 6 are eaten. How many are left?

KMR2.2, KNS2.1

Problem-Solving Strategy: Draw a Picture

Check student’s drawings.

1. 7 birds are on a fence. 3 birds fly away. How many are left?
2. 8 dogs are barking. 5 dogs stop. How many are left barking?
3. 9 fish are swimming together. 2 fish swim away. How many are left?

KMR2.2, KNS2.1

12-6 Homework Practice
**Answers** (Lesson 12-6)

**Enrich: Subtraction Pictures**

1. **Birds in a Nest**
   - **Story:** 9 birds are in a nest. 2 fly away. How many are left?
   - **Solution:** 7
   - **Drawing:** [Diagram of 9 birds, 2 birds flying away]

2. **Flower Petals**
   - **Story:** 8 petals are on a flower. Some fall off. 6 are left. How many fell off?
   - **Solution:** 2
   - **Drawing:** [Diagram of a flower with 8 petals, 2 petals falling off]

3. **Tree Leaves**
   - **Story:** There are some leaves on a tree. 3 fall off. There are 6 left. How many leaves were on the tree?
   - **Solution:** 9
   - **Drawing:** [Diagram of a tree with some leaves, 3 leaves falling off]

Check student's drawing.
Page 12: Diagnostic Test and Mid-Chapter Test

Name: _______________________

Grade K

Chapter 12

1. Are you ready for chapter 12?

2. Cicle the group that shows less.

3. Check student’s work.

4. Check student’s work.

5. Check student’s work.

Preparation: Color tiles are needed for this assessment.

1. There are 6 books. Place 6 color tiles. 2 books are taken. Take away 2 color tiles. How many are left? [Lesson 12.1]

2. There are 5 birds. 3 birds fly away. How many are there now? [Lesson 12.1]

3. There are 7 penguins. 4 penguins swim away. How many are left? [Lesson 12.2]

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Answers (Oral Assessment and Listening Assessment)

Listening Assessment Response Sheet

5 take away 2 is 3

Oral Assessment Response Sheet

3

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Chapter Test, Form 1 (continued)

Use color tiles to model the subtraction story. Circle the correct number.

There are 5 monkeys in a tree. 2 monkeys climb down. How many are left? Circle the correct number. [Lesson 12.1]

There are 4 planes. 2 planes take off. How many are left? Circle the correct number. [Lesson 12.2]

Circle the correct numbers. [Lesson 12.3]

There are 8 peanuts in a bowl. 4 peanuts get eaten. How many are left? Circle the correct number. [Lesson 12.6]

Check student’s work. [Lessons 12.1, 12.2, 12.4, 12.5, 12.6]
**Answers (Chapter Test Form 2A)**

**Preparation:** Color tiles are needed for this assessment.

1. There are 4 books on the shelf. 2 fall off. How many are left? (Lesson 12.1)
2. There are 5 school buses. 2 buses drive off. How many are left? (Lesson 12.2)
3. There are 7 boats in the lake. 2 sail off. How many are left? (Lesson 12.6)

**Check student's work.**

Take away 2 is 6 and 5. 6 and 4 is 8 and 3. Take away 1 is 4 and 1. 4 and 2 is 8 and 4. 4 and 3 is 8 and 5.

**Chapter Test, Form 2A (continued)**

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Chapter Test, Form 2C

Check student’s work.

1. Use color tiles to model the subtraction story. Write the correct number. [Lesson 12.2]
   - There are 6 hats on a rack. 1 hat falls off. How many are left? [Lesson 12.1]
   - 5 ants come out of an anthill. 4 ants go back in. How many are left outside? [Lesson 12.2]
   - Write the correct numbers. [Lesson 12.3]

2. Check student’s work. 5 take away 4
   - ___
   - ___
   - ___

3. Check student’s work. 5 take away 2 is ___
   - ___
   - ___

Preparation: Color tiles are needed for this assessment.

Use color tiles to model the subtraction story. Write the correct number. [Lesson 12.2]

Chapter Test, Form 2C (continued)

4. Check student’s work. 7 take away 5 is ___
   - 5
   - ___
   - ___

5. Check student’s work. 8 take away 3 is ___
   - 5
   - ___
   - ___

6. Check student’s work.
   - ___
   - 5

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**Answers (Chapter Test Form 2D)**

**Preparation:** Use color tiles to model. Write the correct numbers.

1. Dad has 4 ties on a tie rack. He takes 1 off to wear. How many are left? [Lesson 12.1]
   - 3 ties remain.

2. There are 6 buckets filled with water. 2 buckets are dumped out. How many buckets of water are left? [Lesson 12.2]
   - 4 buckets remain.

3. Write the correct numbers. [Lesson 12.3]
   - 6
   - 9

**Check student's work.**

4. There are 7 shirts in the dryer. 3 shirts get folded. How many are left in the dryer? Write the number. [Lesson 12.6]
   - 4 shirts remain.

5. Use color tiles to model. Write the correct numbers. [Lessons 12.4, 12.5]
   - 6 take away 3 is 3
   - 9 take away 4 is 5

**Check student's work.**

6. Write the correct numbers. [Lesson 12.2]
   - 63
   - 97

7. Use color tiles to model the story. Write the correct numbers. [Lessons 12.4, 12.5]
   - 6 take away 3 is 3
   - 9 take away 2 is 7

**Check student's work.**

8. Write the correct numbers. [Lesson 12.2]
   - 41

9. Go on to the next page.

**Check student's work.**
Answers (Cumulative Test)

1. Look at the first picture. Circle the group that is equal. [Lesson 1.5]
2. Count the objects. Write the number. [Lesson 6.2]
3. Use the pictures to model the story. Write the numbers. [Lesson 12.5]
4. Circle the heavier animal. [Lesson 7.5]
5. Write the time showing on the clock. [Lesson 9.6]

1. Take away 3 is 5

2. 7 o'clock

3. Go on

Cumulative Test Chapters 1–12

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Answers (End-of-Year Test)

Look at the first picture. Circle the picture that is the same. [Lesson 1.2]

Draw the shape that could come next in the pattern. [Lesson 3.3]

Count the bananas. Color the squares to show how many. [Lesson 5.1]

Write the numbers in the correct order. [Lesson 2.8]

Circle the shorter animal. Draw an X on the taller animal. [Lesson 7.3]

Circle the group that shows longest to shortest. [Lesson 7.2]

Count the objects. Write the numbers. Circle the number that shows more. [Lesson 8.4]

Draw more basketballs to make 8. [Lesson 4.2]

(continued)
1. Write a 1 below the activity that happens in the morning. Write a 2 below the activity that happens in the afternoon. Write a 3 below the activity that happens in the evening. [Lesson 9.1]

2. Count the flowers. Write the missing number. [Lesson 4.8]

3. Write the hidden number. [Lesson 6.7]

4. Count the ladybugs. Write the number. [Lesson 8.1]

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5. How many corners does a square have? Write your answer. [Lesson 10.5]

6. Look at the solid figure. Draw the plane figure that matches the shaded side. [Lesson 10.3]

7. 3 squirrels are eating nuts. 2 more squirrels come. Use counters to add. How many squirrels in all? [Lesson 11.2]

8. Use counters to model the subtraction story. Use Xs to subtract. Write the correct numbers. [Lessons 12.4]