

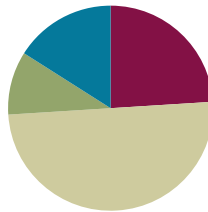
Lesson 20

Objective: Reason about sets of 7 varied objects in circular and scattered configurations. Find a path through the scattered configuration. Write numeral 7. Ask, “How is your seven different than mine?”

Related Topics: [More Lesson Plans for the Common Core Math](#)

Suggested Lesson Structure

■ Fluency Practice	(12 minutes)
■ Application Problems	(5 minutes)
■ Concept Development	(25 minutes)
■ Student Debrief	(8 minutes)
Total Time	(50 minutes)



Fluency Practice (12 minutes)

- Making 3 with Triangles and Beans **K.CC.4a** (4 minutes)
- Hands Number Line to 7 **K.CC.4a** (4 minutes)
- Show Me Another Way **K.CC.4a** (4 minutes)

Making 3 with Triangles and Beans (4 minutes)

Materials: (S) 3 beans, paper or foam triangle, personal white boards

Conduct the activity as laid out in Lesson 11, but now have students write the equations on their personal white boards. Challenge students to list all possible combinations.

Hands Number Line to 7 (4 minutes)

Materials: (S) Two-hands mat, bag of beans (painted red on one side)

Conduct the activity as laid out in Lesson 2, but now extend the number line to the right hand, to show 6 and 7. Show 6 as a full left hand and the thumb of the right hand so that students can see the number line progressing across their hands.

Show Me Another Way (4 minutes)

Conduct the activity as laid out in Lesson 6, but now include showing different ways to make 6, and 7.

Application Problems (5 minutes)

Christopher has a bag of 5 cookies and 2 other loose cookies. Draw the cookies. How many cookies does Christopher have? Count the cookies with your partner. Then circle the bag of 5 cookies.

Note: Reinforcing the idea of 7 as 5 and 2 will be beneficial to the students as they count sevens in varying configurations in today's lesson.

Concept Development (25 minutes)

Materials: (T) Cardboard writing frame on white board (S) Bag of 10 counters (objects should vary from student to student), work inscribed with a large circle, plastic cup, personal white board

- T: Take out 5 of your counters and then count out 2 more. How many are left in your bag?
- S: 3.
- T: Put your counters in your plastic cup. Shake them up 7 times and pour them into the circle on your work mat. (Demonstrate.) Use your finger to make a counting path through your objects while you count them. How many?
- S: 7.
- T: Look at your friend's work mat. Does her 7 look exactly like yours? Show each other how you counted. Did you make the same counting path?
- S: (Varied responses. Allow time for sharing and discussion.)
- T: Now put your counters around the edge of the circle to make a magic necklace. Count them again. How many? (7.) Show your friend how you counted. Did you count them the same way? (Again, allow time for sharing and discussion.)
- T: Put 2 of your counters back in the bag. Now put 5 counters back in the bag. How many counters did you put away?
- S: 7!
- T: Show me 7 with your fingers. (Check to ensure understanding.) We are going to practice writing the number 7. Watch me make 7 on the board and follow along with your fingers in the air. "A straight



NOTES ON MULTIPLE MEANS OF REPRESENTATION:

Scaffold the application problem for English Language learners by modeling for students the word *more*, for instance by showing 1 linking cube and having students say "1 linking cube," then showing them another linking and saying "1 more" as you make a tower with your second linking cube. Add the word *more* to your word wall with an appropriate visual.



NOTES ON MULTIPLE MEANS OF ACTION AND EXPRESSION:

Assist special needs students during the activity by breaking down the steps for them and watching them accomplish each step before moving on with the next:

- Let's count 5 of your counters, 1, 2, 3, 4, 5. Good.
- Put the counters in the plastic cup.
- Let's count 2 more, 1, 2. Good.
- Now, put those 2 counters in the cup.
- Let's count everything together.

line and down from heaven; that’s the way we make a 7!” (Demonstrate several times, followed by having children write on the rug or other surface for tactile practice.) You are ready to practice writing on your white boards. When you are ready, you may take out your practice sheet and use your pencils. Distribute white boards to students. When the penmanship practice is complete, distribute Problem Set.

Problem Set (8 minutes)

Students should do their personal best to complete the Problem Set within the allotted 8 minutes. For some classes, it may be appropriate to modify the assignment by specifying which problems they work on first. Some problems do not specify a method for solving. Students solve these problems using the RDW approach used for Application Problems.

Guide students to connect the dots they colored as they count to 7.

Student Debrief (8 minutes)

Lesson Objective: Reason about sets of 7 varied objects in circular and scattered configurations. Find a path through the scattered configuration. Write numeral 7. Ask, “How is your seven different than mine?”

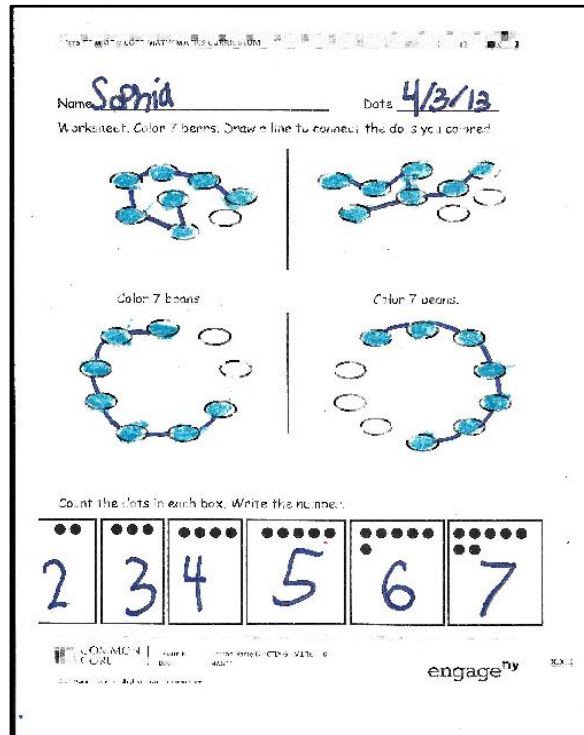
The Student Debrief is intended to invite reflection and active processing of the total lesson experience.

Invite students to review their solutions for the Problem Set. They should check work by comparing answers with a partner before going over answers as a class. Look for misconceptions or misunderstandings that can be addressed in the Debrief. Guide students in a conversation to debrief the Problem Set and process the lesson. You may choose to use any combination of the questions below to lead the discussion.

Have students bring the Problem Set to the rug to discuss.

- Ask your partner about the similarities and differences between your groups of 7 beans that you both colored.
- What did you notice when you were counting the dots and writing the numbers? (The numbers got bigger. There was no 1.)
- Have students compare their counting paths as they connected the dots in the scattered formations. Students are remembering their path, reconstructing their count. This develops their skill of counting while beginning with numbers other than 1.

MP.4

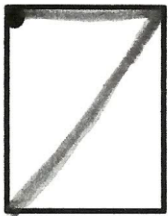


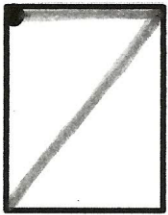
Exit Ticket (3 minutes)

After the Student Debrief, instruct students to complete the Exit Ticket. A review of their work will help you assess the students' understanding of the concepts that were presented in the lesson today and plan more effectively for future lessons. You may read the questions aloud to the students.

Name _____ Date _____

Insert this page into your personal whiteboards. Practice. When you are ready, write your numbers in pencil on the paper.

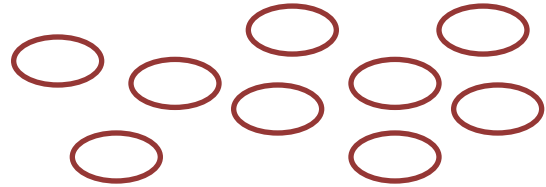
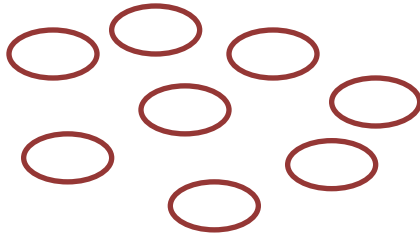




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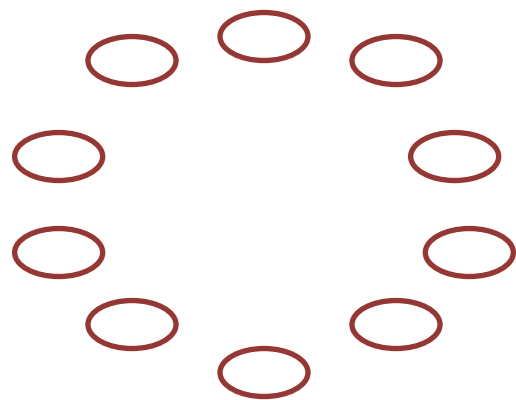
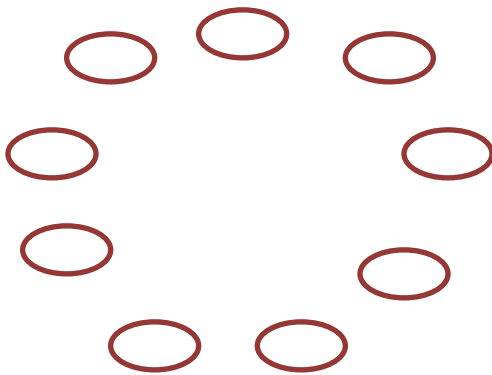
Date _____

Color 7 beans. Draw a line to connect the dots you colored.



Color 7 beans.

Color 7 beans.



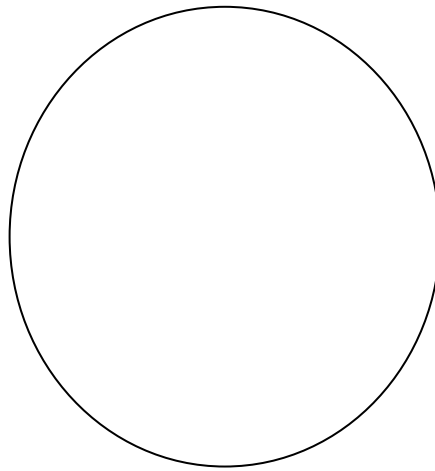
Count the dots in each box. Write the number in the box.

● ●	● ● ●	● ● ● ●	● ● ● ● ●	● ● ● ● ● ●	● ● ● ● ● ● ●
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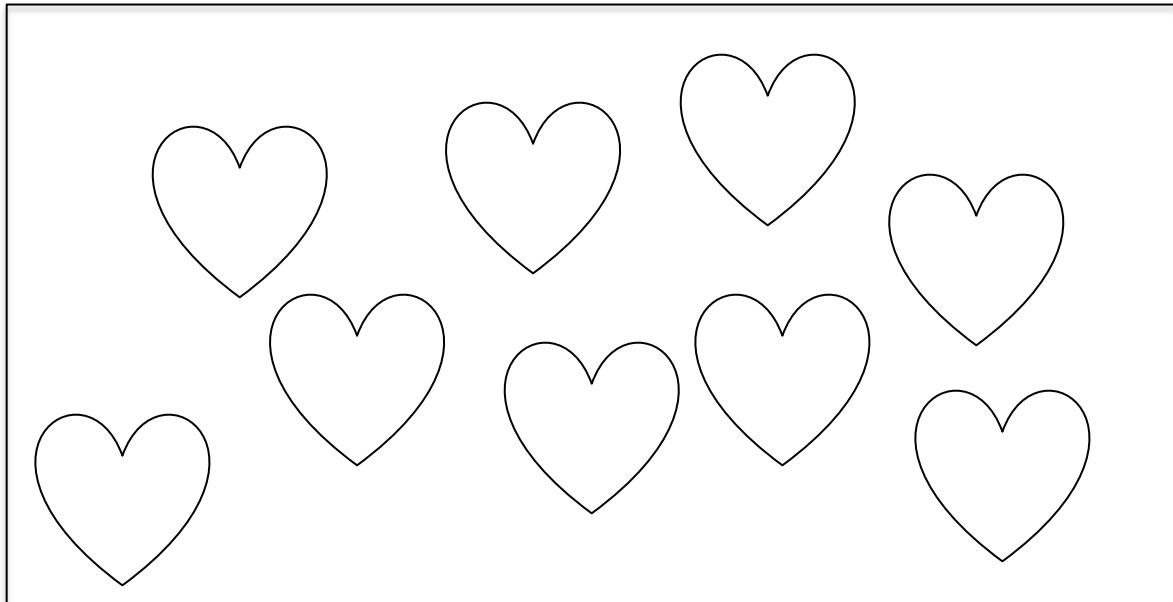
Name _____

Date _____

Make a necklace. Draw 7 beads around the circle.



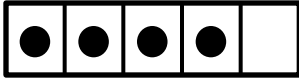
Color 7.

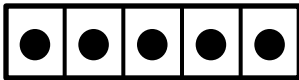


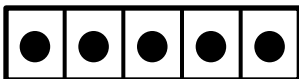
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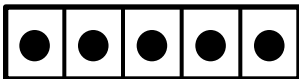
Date _____

How Many? Write the number in the box.

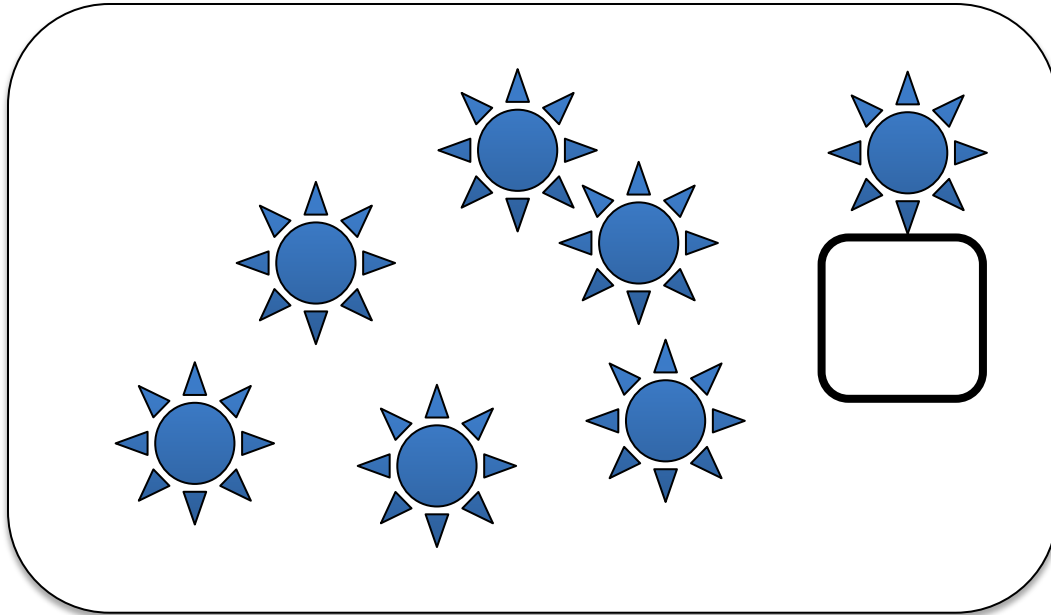








Count how many. Write the number in the box.
 Draw a line to show how you counted the stars.



Count how many. Write the number in the box.
 Draw a line to show how you counted the circles.

