Lesson 10 K•1

Lesson 10

Objective: Within circular and scattered dot configurations of numbers 3,

4, and 5 find *hidden partners*.

Related Topics: More Lesson Plans for the Common Core Math

Suggested Lesson Structure

Total Time	(50 minutes)	
Student Debrief	(5 minutes)	
Concept Development	(27 minutes)	
Application Problems	(8 minutes)	
Fluency Practice	(10 minutes)	

Fluency Practice (10 minutes)

	Line Up, Sprinkle, Circle K.CC.5	(4 minutes)
•	Five Frames: Counting Dots and Spaces K.CC.4a	(4 minutes)
	Finger Counting K.CC.2	(2 minutes)

Line Up, Sprinkle, Circle (4 minutes)

Materials: (S) Bag of beans, piece of construction paper or foam to be used as a work mat, small plastic cup

- T: Take 3 beans out of your bag and put them in your cup. (Wait for students to do this.) Spill them onto your mat and put them in a straight line. Touch and count.
- S: 1, 2, 3.
- T: Are there still 3?
- S: Yes!
- T: Put them back in your cup. Spill them onto your mat and sprinkle them around. Touch and count.
- S: 1, 2, 3.
- T: Are there still 3?
- S: Yes!

Repeat with 4 and 5, including an additional last step, to put the beans in a circular formation. Allow them to experiment with other formations. Having them recount each time not only gives more opportunities for 1:1 matching, but also develops the concept of conservation.



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1.C.25





Five Frames: Counting Dots and Spaces (4 minutes)

Materials: (T) Large 5-frame cards

- T: We're going to practice *listen, think, raise your hand, wait.* Raise your hand when you have counted the dots, then wait for the snap to say the number. Ready? (Show 4-dot card. Wait until all hands are raised, and then give the signal.)
- S: 4.
- T: How many spaces? (Wait until all hands are raised, and then give the signal.)
- S: 1.
- T: How many dots? (Show 3-dot card. Wait until all hands are raised, and then give the signal.)
- S: 3.
- T: How many spaces?
- S: 2.
- T: How many dots? (Show 1-dot card. Wait until all hands are raised, and then give the signal.)
- S: 1.
- T: How many spaces?
- S: 4.

As students begin to demonstrate mastery, deviate from a predictable pattern, and challenge them to recognize the groups of dots faster.

Finger Counting (2 minutes)

Conduct activity as outlined in Lesson 8.

Application Problems (8 minutes)

Draw 5 dogs playing. Draw a fence that keeps exactly 3 of them inside.

Note: This links previous lessons of creating a group of objects of a certain count and leads into today's lesson of hidden partners within a number.

Concept Development (27 minutes)

Materials: (T/S) 5 counting bears—1 large red, 2 large yellow, 2 small yellow; 1 paper clip

Part One

Circular Count

Begin lesson with the 5 counting bears in a line on the rug.

COMMON CORE

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1.C.26



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NOTES ON

ACTION AND EXPRESSION:

As you explain that students will practice *listen, think, raise your hand,*

wait use gestures to illustrate the

understand your directions.

words, so for instance, cup your hands

to ear to illustrate *listen*, point to your

temple when saying *think*, etc. This will help your English language learners to

MULTIPLE MEANS OF

- T: Some bears went to the park. They wanted to play on the merry-go-round. (Place the plate down and put the bears in a circle around or on the plate.)
- T: Let's count the bears. (Count with students and don't stop when you get back to the first bear counted.)
- S: 1, 2, 3, 4, 5, 6.... You didn't stop counting after you counted them all.
- T: What can I do so I know when to stop counting when my things are in a circle?
- S: Pick up each bear as you count. \rightarrow Put a marker so that you know where you started.
- T: Okay! I am going to put a marker so I can count in a circle correctly. (Place the paper clip at the start of the count.) Count with me.
- S: 1, 2, 3, 4, 5.
- T: What if I put my marker at a different bear to start? Will the count be the same? (Try it to verify.)
- T: There are 5 bears. Yesterday, we found hidden partners inside of our big tower. Can we see groups of different bears inside this bigger group?
- S: How about 3 big bears and 2 little bears.
- T: Do you see any other small groups of friends?
- S: I see 1 red bear and 4 yellow bears.
- T: Inside our circle count, we saw hidden partners, too.
- T: Now you find small groups of bears inside your larger group.

Pass out a bag of 5 bears to each student. Direct them to put their cup on their mat and place their bear friends around the cup in a circle. Circulate and encourage them to both count in a circle correctly by placing their marker and look for small groups inside the large group.

Part Two

Scatter Count

Hold 5 bears in your hand.

- T: The bears were going so fast on the merry-go-round that they fell off. (Dump them onto the floor so they scatter.) Oh no! Let's count and see if all our bear friends are ok. How can I count them?
- S: Touch each bear as I count. \rightarrow Pick up each bear as I count.
- T: Show me a counting path. Where should I start?
- S: With the big red one!
- T: Next?
- S: The little blue one right next to it.

NOTES ON MULTIPLE MEANS OF ENGAGEMENT:

Scaffold the lesson for students below grade-level by having them pair up and take turns putting their bears in a circle and counting them. Students can then check their solutions with each other.

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Continue the count. Once finished go back and recount more quickly but using the exact same counting path through the 5 bears. Once having done that, go back and find a different pathway through the count.



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Problem Set (5 minutes)

Students should do their personal best to complete the Problem Set within the allotted 5 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.

Have students count the objects in each circle. Then, have students color the correct number of objects.

Student Debrief (5 minutes)

Lesson Objective: Within circular and scattered dot configurations of numbers 3, 4, and 5 find *hidden partners*.

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.

- Create stories to go along with problems. (For example, I have 3 gumballs. 2 gumballs are white and 1 gumball is ______.)
- Discuss what hidden partners were found inside the configuration.
- Circle the hidden partners and discuss.
- Talk about the strategies they used for counting things that are in a circle and things that are scattered.
- Did you follow the same counting path as your friends?

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.

Note: Depending on your class, Exit Tickets with multi-step directions can be done in parts. "First let's count the dots and circle the number." Teacher assesses. "Now let's find the hidden group of 3, circle a group of 3 in each box." Teacher assesses.



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Name

Date _____

Count the objects. Circle the total number of objects. Color 1, 2, or 3 to see the hidden partners.



Draw 2 circles and color them. Count all the objects and circle the number.





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Name

Count how many. Draw a box around that number. Then circle a group of 3 dots in each box.





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1.C.30



Name

Date _____

Count how many. Draw a box around that number. Then, color 3 of the circles in each group.



Talk to an adult at home about the hidden partners you found.



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