

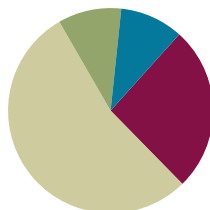
Lesson 14

Objective: Write numerals 1–3. Represent decompositions with materials, drawings, and equations, $3 = 2 + 1$ and $3 = 1 + 2$.

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

Suggested Lesson Structure

■ Fluency Practice	(13 minutes)
■ Application Problems	(5 minutes)
■ Concept Development	(27 minutes)
■ Student Debrief	(5 minutes)
Total Time	(50 minutes)



Fluency Practice (13 minutes)

- Making 3 with Triangles and Beans **K.CC. 4a** (5 minutes)
- Making 3 Finger Combinations **K.CC. 4a** (4 minutes)
- Hide and See **K.CC. 4a** (4 minutes)

Making 3 with Triangles and Beans (5 minutes)

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

Repeat Triangles and Beans from Lesson 11 but include 0 and 3.

Making 3 Finger Combinations (4 minutes)

As outlined in Lesson 11, but include 0 and 3. Variation: Students can say the expressions.

Hide and See (4 minutes)

Conduct activity as outlined in Lesson 11, but include 0 and 3, with 3 as the total. Variation: Students can say the expressions as they put the cubes together. This game could also be played with a partner.

Application Problems (5 minutes)

How many ears do you have? Write the number. How many heads do you have? Write the number. How many feet do you have? Write the number. How many wings do you have? Write the number. Stand with 2 friends. How many noses in your group? Write the number. Draw something that has 1 ear, 2 heads, and 3 feet. Show your friend your picture.

Note: Practicing counting and writing numbers 0–3.

Concept Development (27 minutes)

Materials: (S) Bags of 3 linking cubes (loose, not stacked)

- T: Please take your linking cubes out of the bag and put them in front of you. Pick up a cube. How many linking cubes are in your hand?
- S: 1.
- T: Write 1 in the air. (Demonstrate.) Pick up another cube and join it to your first one. (Repeat these steps until the students have a tower of 3 cubes.) How many cubes do you have now?
- S: 3.
- T: Write 3 in the air. (Demonstrate.) Watch how I take my tower apart (break off one cube). How many cubes do I have in my hands?
- S: 1 in that hand. 2 in the other hand.
- T: Did I pick up any more cubes?
- S: No.
- T: Did I drop some?
- S: No.
- T: So I still have 3 cubes in my hands, but I made my 3 tower into a 1 tower and a 2 tower. Take your tower of 3 and show me how you can break it into a 1 tower and a 2 tower.
- S: (Break the whole tower into the two parts)
- T: Watch me put my parts together to make a tower of 3 again. There is a special math way to write what I just did. (Write $3 = 1 + 2$.) We call this a **number sentence**. (Repeat the decomposition exercise to show that $3 = 2 + 1$.)
- T: Put your cubes back in the bag. I'm going to draw some cubes on the board (draw a rectangle divided into three squares to look like a linking cube tower). I will color 2 squares red. I will color the rest blue. How many cubes are in my tower?
- S: 3.
- T: How many red?
- S: 2.

MP.3



NOTES ON MULTIPLE MEANS OF REPRESENTATION:

Many youngsters are visual learners. Take a linking cube and put a piece of sticky sided magnetic tape on it. Do this with about 2 or 3 dozen cubes. Take a metal cookie sheet and use the magnetic cubes to make towers and show the towers can be broken into different combinations. Use a different cookie sheet for each numeral.



NOTES ON MULTIPLE MEANS for ACTION AND EXPRESSION:

Sometimes students are helped when they have a work mat that will help them focus with their manipulatives. This work mat might show templates for towers of 3 (or 4 or 5). Depending on your students' needs, you might want to make the 2 and 1 combination and the 1 and 2 combination, etc.

- T: How many blue?
 S: 1.
 T: I will write it the math way. Here is our number sentence. (Write $3 = 2 + 1$.)
 T: Can we do this with other things? (Draw a group of three balls on the board. Draw stripes on one of them.) How many balls are there?
 S: 3.
 T: How many have stripes?
 S: 1.
 T: How many do not have stripes?
 S: 2.
 T: 3 is the same as 1 and 2. I will write the number sentence: $3 = 1 + 2$.
 T: Now we will practice finding the parts of three and writing the number sentences on our problem sets.

Problem Set (10 minutes)

Students should do their personal best to complete the Problem Set within the allotted 10 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 color the picture to match the number sentence. For informal assessment, allow students to choose their own color combinations in order to assess their understanding of decomposition.

Student Debrief (5 minutes)

Lesson Objective: Write numerals 1–3. Represent decompositions with materials, drawings, and equations, $3 = 2 + 1$ and $3 = 1 + 2$.

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.

- How many are in your tower all together?
- What are the parts of your tower?

- How would we say that as a **number sentence**? 3 is the same as _____ and _____.
- Could we break bigger towers into parts and make number sentences to match?
- When have you taken a whole thing and broken it into two parts (sand castles, papers, cakes, etc.)?
- If you put the parts together again, do you get the whole thing again?

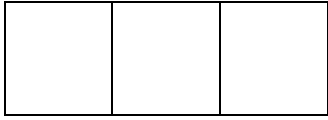
Exit Ticket (3 minutes)

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 _____

Color the picture to match the number sentence.



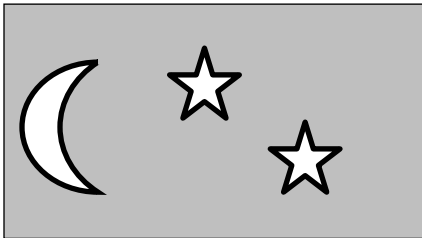
$$3 = 1 + 2$$

Write the number sentence:



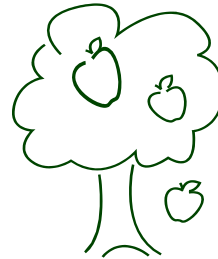
$$3 = 2 + 1$$

Write the number sentence:



$$3 = 1 + 2$$

Write the number sentence:

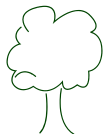


$$3 = 2 + 1$$

Write the number sentence:

Look at the pictures above and write how many.



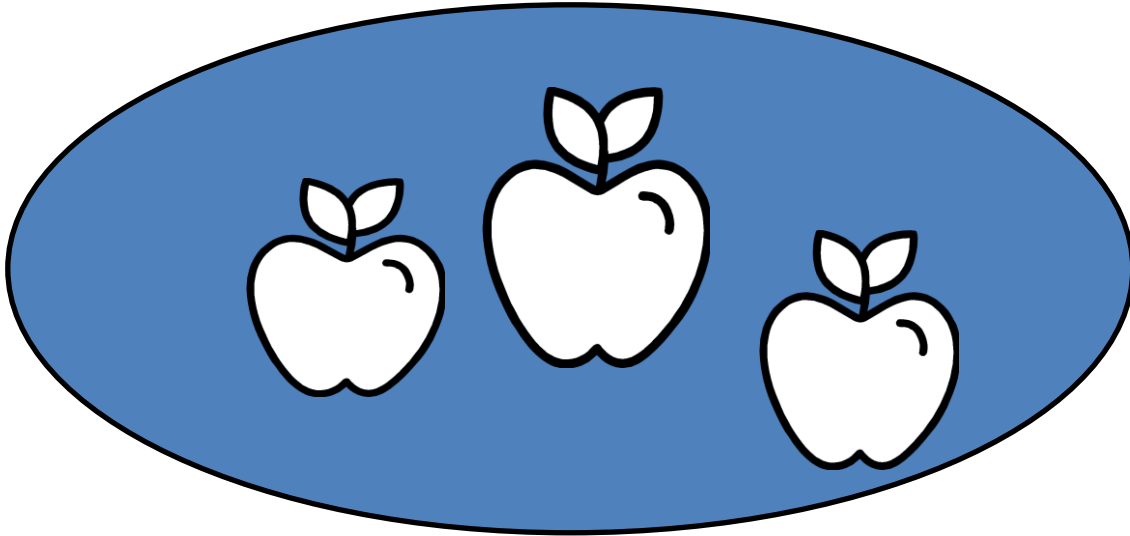






Name _____

Date _____

Color the apples to show that $3 = 2 + 1$.

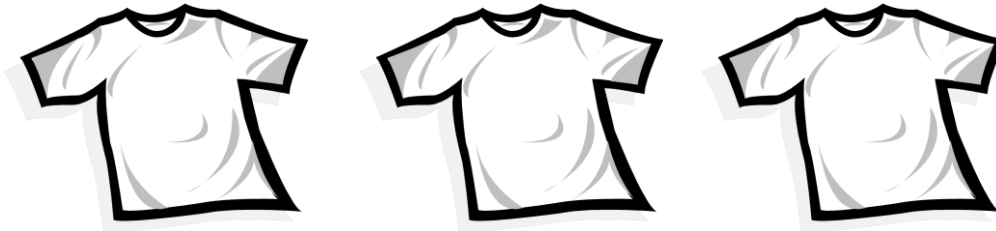
How many apples are there all together? _____

3 is the same as _____ and _____.

3 apples = _____ apples + _____ apple.

Name _____

Date _____



Color the shirts so that 1 is red and 2 are green. There are _____ shirts. _____ = 1 + _____.



Color the balls so that 2 are yellow and 1 is blue. There are _____ balls. _____ = 2 + _____.

Choose two of your favorite types of fruit. Draw some of each on the plate to show that $3 = 2 + 1$.



_____ fruits = _____ fruits + _____ fruit.

_____ = _____ + _____.