

Objective

Use one-to-one correspondence and language such as *more than*, *less than*, or *same number as* to describe relative sizes of sets of concrete objects.

Common Core State Standards

- **K.CC.6** Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies.

Counting and Cardinality

More Than, Less Than, Same As

One way to compare the value of two numbers is to represent each number as a set of objects and then line up the two sets and compare using one-to-one correspondence. This strategy makes the difference in value visible as a difference in size or length of the set. The relative value of the two numbers represented can then be described as one number being more than, the same number as, or less than the other number.

Try It! Perform the Try It! activity on the next page.

Talk About It

Discuss the Try It! activity.

- Have children look at their completed trays.
- **Ask:** *How many houses did you put in the tray to show Daniel's block?*
- **Ask:** *How many houses did you put in the tray to show Maya's block?*
- **Ask:** *How do you know which block has more houses?*

Solve It

Have children take out the row showing the houses on Daniel's block, but leave the row showing the houses on Maya's block. Then, have children show a group of houses less than the number on Maya's block. Have children explain how they know their new group has less than the number on Maya's block.

More Ideas

For other ways to teach about relative value of objects—

- Have a pair of children each roll a dot die at the same time. Then they count the dots, compare the values, and name the number. Children could play a game in which the child rolling the greater number earns a point.
- Have children use Snap Cubes® to represent two different numbers, and line up the stacks to see which is more than or less than. Children should describe the relative size aloud.
- Have each child in a pair gather several 1" Color Cubes. Have them match up each to show a one-to-one correspondence. Children should determine if their partner has more than, less than, or the same number of cubes as they have.

Formative Assessment

Have children complete the following activity.

Chelsea has 4 dogs. Felipe has 4 dogs. Does Chelsea have more dogs, less dogs, or the same number of dogs as Felipe? Explain how you know.

Try It! 30 minutes | Pairs

Here is a problem about comparing number values.

Daniel has 5 houses on his block and Maya has 4 houses on her block. Whose block has more houses?

Introduce the problem. Then have children do the activity to solve the problem.

Say: *Follow the steps below to determine who has more houses on their block.*

Materials

- CountEN® Sorting Tray (1 per pair)
- Classifying Counters (9 house counters per pair)



1. To begin, have children show the number of houses on Daniel's block. Have children put 5 houses on one side of the sorting tray, counting each one as they place it in its position.



2. Have children show the number of houses on Maya's block. Children should put 4 houses on the other side of the tray, counting each one as it is placed in the correct position.



3. Children should look at the two rows. Have them determine which is longer. **Ask:** *Whose block does that row represent?*

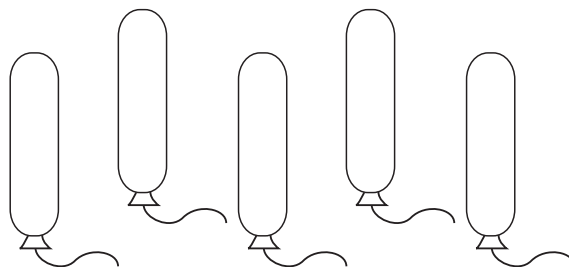
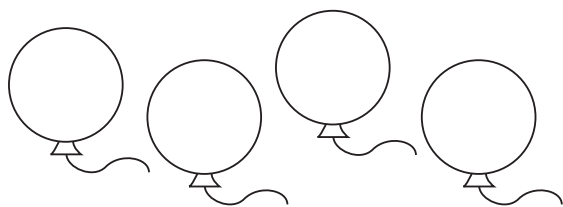
! Look Out!

Watch for children who are not placing objects in separate rows to distinguish between the sets of numbers. Help them by explaining that Daniel and Maya have different blocks, so the houses on Daniel's block are shown on one side, and the houses on Maya's block are shown on the other side.

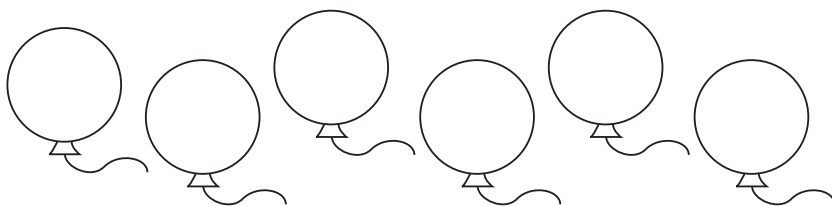


Check children's work.

1.



2.



Directions

1. Color the group that has 1 more balloon. 2. Draw a group of balloons that has 1 less balloon.



Answer Key

Check children's work.

Challenge

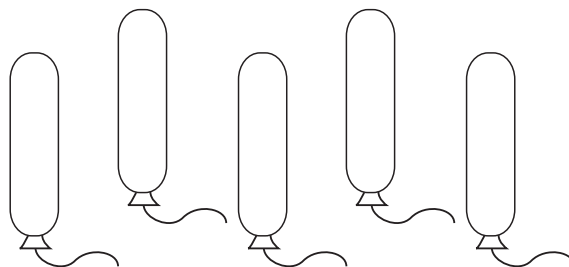
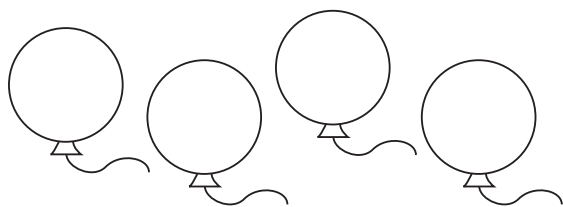
Pick a handful of cubes from a bag and count the cubes. Draw that many balloons in the top space. Draw the same number of balloons in the bottom space. Draw lines to match the balloons and show that the groups are equal.

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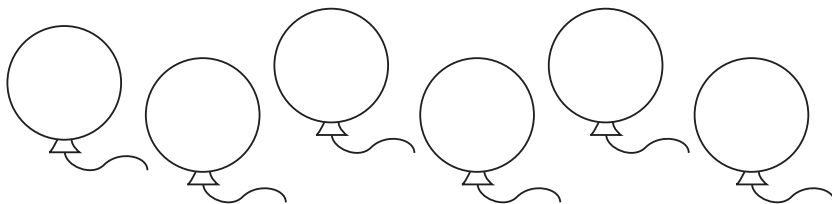


Name _____

1.



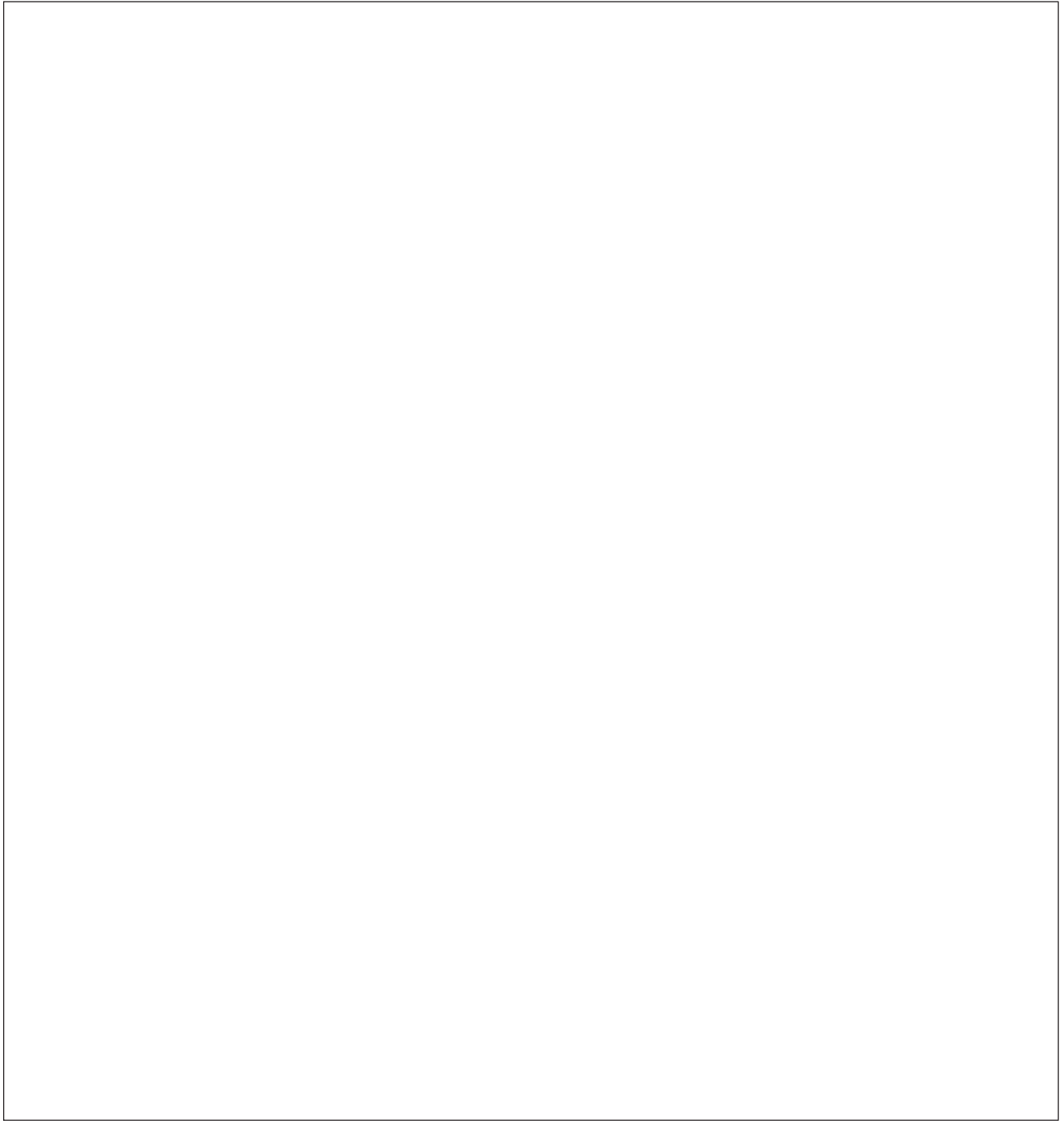
2.



Directions

1. Color the group that has 1 more balloon. 2. Draw a group of balloons that has 1 less balloon.

Name _____



Challenge

Pick a handful of cubes from a bag and count the cubes. Draw that many balloons in the top space. Draw the same number of balloons in the bottom space. Draw lines to match the balloons and show that the groups are equal.

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