

CCSS Mathematics Assessment Task

Cookies

Grade Level: Kindergarten

Mathematics Domain and Cluster:

Domain: Operations and Algebraic Thinking

Cluster: Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.

Common Core standard(s) being assessed (if the task is intended to assess only one part of the standard, underline that part of the standard):

K.OA.1: Represent addition and subtraction with objects, fingers, mental images, drawings (drawing need not show details, but should show the mathematics in the problem), sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

K.OA.2: Solve addition and subtraction word problems, and add and subtract within 10 e.g., by using objects or drawings to represent the problem.

Student Materials:

- Cookies Assessment Sheet
- Counters
- Pencil

Teacher Materials:

- None

Directions (for teacher to administer assessment task):

- Hand out the Cookies assessment

Differentiation:

- Student can represent their thinking using objects. Teacher can take a picture as evidence of understanding. To gain a better understanding of students thinking the teacher can ask the student to explain how they solved the problem.

Prompt:

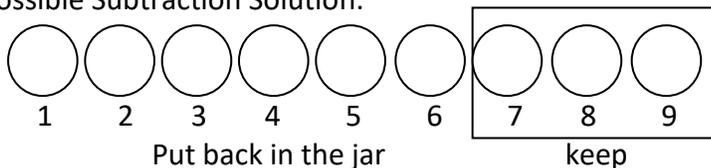
Say: **Today you will solve a story problem. You can use math manipulatives if you need to.**

Read the prompt: **You took 9 cookies from the cookie jar. Your mom said you can only have 3. How many cookies do you need to put back in the jar?**

Correct or Model Answer:

*students can use addition or subtraction to find the solution.

Possible Subtraction Solution:



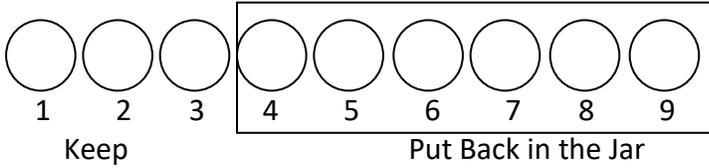
Possible Equation

$$9 - 3 = 6$$

I need to put 6 cookies back in the jar.

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Possible Addition Solution:



Possible Equation

$$3 + 6 = 9$$

I need to put 6 cookies back in the jar.

Scoring Guide/Rubric (a score should be awarded for each criterion below)

Criteria (CCSS code)	0 points	1 Point	2 Points
Represent subtraction with objects, drawings or equations. (K.OA.1) (K.OA.2)	Student is unable to represent the solution to the problem using objects, drawings and/or an addition or subtraction equation.	Student represents the solution to the problem using objects, drawings and/or an addition or subtraction equation with some mistakes.	Student accurately represents the solution to the problem using objects, drawings and/or an addition or subtraction equation.

CCSS Mathematics Assessment Task

Name _____

Date _____

Cookies

Problem:

You took 9 cookies from the cookie jar.

Your mom said you can only have 3.

How many cookies do you need to put back in the jar?

Solve the problem.

Show your thinking.

Scoring Guide/Rubric (a score should be awarded for each criterion below)

Criteria (CCSS code)	0 points	1 Point	2 Points
Represent subtraction with objects, drawings or equations. (K.OA.1) (K.OA.2)	Student is unable to represent the solution to the problem using objects, drawings and/or an addition or subtraction equation.	Student represents the solution to the problem using objects, drawings and/or an addition or subtraction equation with some mistakes.	Student accurately represents the solution to the problem using objects, drawings and/or an addition or subtraction equation.