

CCSS Mathematics Assessment Task

Escaping Bugs

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:

- Escaping Bugs Assessment Sheet
- Counters
- Pencil

Teacher Materials:

- None

Directions (for teacher to administer assessment task):

- Hand out the Escaping Bugs 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:

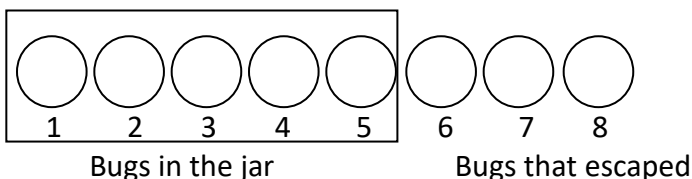
Say: **Today you will solve a story problem. You can use math manipulatives if you need to.**

Read the prompt: **You and your friends were hunting for bugs. You found 8 and put them in your jar. When you got back home there were only 5 in your jar. How many bugs escaped?**

Correct or Model Answer:

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

Possible Subtraction Drawing:

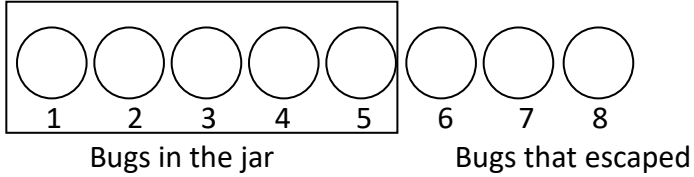


Possible Subtraction Equation:

$8 - 5 = 3$ bugs escaped

CCSS Mathematics Assessment Task

Possible Addition Drawing:



Possible Addition Equation:

$$5 + 3 = 8$$

3 bugs escaped

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 _____

Escaping Bugs

Problem:

You and your friends were hunting for bugs.

You found 8 and put them in your jar.

When you got back home there were only 5 in your jar.

How many bugs escaped?

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.