

# CCSS Mathematics Assessment Task

## Hidden Pennies

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.3: Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation.

Student Materials:

- Hidden Pennies Assessment
- Pennies or Counters
- Cup
- Pencils

Teacher Materials:

- None

Directions (for teacher to administer assessment task):

- Provide students access to the counters and a cup
- Hand out the Pennies Assessment.

Differentiation:

- Students can represent their thinking using the counters and a cup. The teacher can take pictures 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 are going to solve a problem about pennies.**

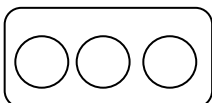
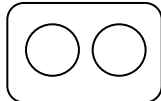
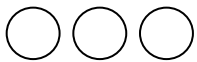
Read the prompt: **There are 5 pennies in all. Some are hidden under a cup and some are not.**

**How many pennies could be under the cup? How many pennies could be outside of the cup?**

**Show 3 different solutions.**

Correct Model or Answer:

Possible Picture Solutions



## CCSS Mathematics Assessment Task

Possible Number Sentence Solutions

$$3 + 2 = 5$$

$$1 + 4 = 5$$

$$4 + 1 = 5$$

Possible Table Solution

Pennies In	Pennies Out
1	4
2	3
3	2
4	1

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

Criteria (CCSS code)	0 points	1 Point	2 Point
Decompose numbers less than or equal to 10 into pairs in more than one way (K.OA.3)	Student is unable to accurately show 5 using a drawings or equations.	Student accurately shows 1-2 different ways to make 5 using drawings and/or equations.	Student accurately shows 3 different ways to make 5 using drawings and/or equations.

## CCSS Mathematics Assessment Task

Name \_\_\_\_\_

Date \_\_\_\_\_

### Hidden Pennies

Solve the problem below.  
Explain your thinking.

There are 5 pennies in all.  
Some are hidden under a cup and some are not.

How many pennies could be under the cup?  
How many pennies could be outside of the cup?  
Show 3 different solutions.

#### **Solution 1:**

How many pennies are there in all? \_\_\_\_\_

Pennies Outside the Cup \_\_\_\_\_ Pennies Inside the Cup \_\_\_\_\_

#### **Solution 2:**

How many pennies are there in all? \_\_\_\_\_

Pennies Outside the Cup \_\_\_\_\_ Pennies Inside the Cup \_\_\_\_\_

#### **Solution 3:**

How many pennies are there in all? \_\_\_\_\_

Pennies Outside the Cup \_\_\_\_\_ Pennies Inside the Cup \_\_\_\_\_

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