Sorting Buttons

Grade Level: Kindergarten

Mathematics Domain and Cluster: Domain: Measurement and Data

Cluster: Classify objects and count the number of objects in each category.

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.MD.3: <u>Classify objects into given categories</u>; count the numbers of objects in each category and sort the categories by count. (Limit category counts to be less than or equal to 10.)

K.CC.3: Write numbers from 0 to 20. Represent a number of objects with a written numeral 0-20 (with 0 representing a count of no objects).

K.CC.5: <u>Count to answer "how many?" questions about as many as 20 things arranged in a line, a rectangular array, or a circle; or as many as 10 things in a scattered configuration; given a number from 1-20, count out that many objects.</u>

K.CC.6: <u>Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group</u>, e.g., by using matching and counting strategies. (Note: Include groups with up to 10 objects.)

Student Materials:

- Sorting Buttons Assessment Sheet
- Pencil

Teacher Materials:

• Buttons – no more than 10 buttons per student; some buttons that are 2-hole and some that are 4-hole

Directions (for teacher to administer assessment task):

Teacher may choose whether to assess students individually or in small groups.

- Hand out Sorting Buttons Assessment Sheet (one per student) and buttons. Ask question prompts.
- Teacher can dictate the student's response when labeling each group.

Prompt:

Say: Sort the buttons by number of holes. Draw a circle around each group. Label how you sorted each group. Count and write how many buttons there are next to the circle. Draw a box around the group that has more buttons.

Correct or Model Answer:

Labels: "2 holes" and "4 holes" OR "2" and "4"

How Many?: Answers will vary

Scoring Guide/Rubric (a score should be awarded for each criterion below)				
Criteria (CCSS code)	0 points	1 Point	2 Points	
Classifying the objects	Student does not	Student accurately sorts	Student accurately	
into given categories.	accurately sort objects	objects into groups but	sorts objects into	
(K.MD.3)	into groups and does	does not explain how	groups and is able to	
	not explain how they	they sorted.	explain how they	
	sorted.		sorted.	
Counting to answer	Student does not		Student accurately	
"how many?"	accurately count the		counts the objects in	
(K.CC.5, K.MD.3)	objects in each group.		each group.	
Writes numbers 0-20.	Unable to write	Writes one of the 2	Writes both numbers	
(K.CC.3)	numbers.	numbers correctly.	correctly.	
Identifying which group	Student does not		Student accurately	
is greater than.	identify which group		identifies which group	
(K.CC.6, K.MD.3)	has more.		has more.	

Name: _____ Date: _____

	Sorting		
	nber of holes. Draw a circle a		-
Count and write how m	any buttons there are in eac	th group. Draw a box arour	nd the group that has mor
Scoring Guide/Rubric	(a score should be awarded	for each criterion below)	
Scoring Guide/Rubric Criteria (CCSS code)	(a score should be awarded O points	for each criterion below) 1 Point	2 Points
Criteria (CCSS code)		1	
Criteria (CCSS code) Classifying the	0 points	1 Point	Student accurately sorts
Criteria (CCSS code) Classifying the objects into given	0 points Student does not	1 Point Student accurately sorts	Student accurately sorts
_	0 points Student does not accurately sort objects	1 Point Student accurately sorts objects into groups but	Student accurately sorts objects into groups and
Criteria (CCSS code) Classifying the objects into given categories.	O points Student does not accurately sort objects into groups and does not	1 Point Student accurately sorts objects into groups but does not explain how	Student accurately sorts objects into groups and is able to explain how
Criteria (CCSS code) Classifying the objects into given categories. (K.MD.3)	O points Student does not accurately sort objects into groups and does not explain how they sorted.	1 Point Student accurately sorts objects into groups but does not explain how	Student accurately sorts objects into groups and is able to explain how they sorted.
Criteria (CCSS code) Classifying the objects into given categories. (K.MD.3) Counting to answer	O points Student does not accurately sort objects into groups and does not explain how they sorted. Student does not	1 Point Student accurately sorts objects into groups but does not explain how	Student accurately sorts objects into groups and is able to explain how they sorted. Student accurately

numbers correctly.

correctly.

Student accurately

has more.

identifies which group

numbers.

Student does not identify

which group has more.

20. (K.CC.3)

Identifying which

group is greater

(K.CC.6, K.MD.3)

than.