

Connections to the Common Core State Standards for Mathematics (CCSSM)

"The Case of Amanda Smith and the Donut Task"

Standards for Mathematical Content

Domain: Operations and Algebraic Thinking (OA)

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

K.OA.A.1 Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

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

*Kindergarten students work with “add to” and “take from” result unknown situations and “put together/take apart” total unknown and both addends unknown situations.

Domain: Counting and Cardinality (CC)

Cluster: *Know number names and the count sequence.*

K.CCA.2 Count forward beginning from a given number within the known sequence (instead of having to begin at 1).

K.C.C.B.5 Count to answer “how many?” question 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.

K.C.C.C.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.

Standards for Mathematical Practice (SMP)

- 1. Make sense of problems and persevere in solving them.**
2. Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of others.**
- 4. Model with mathematics.**
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Sources

Common Core Standards Writing Team. (2011). *Progressions for the common core state standards in mathematics (draft): K, counting and cardinality; K-5 operations and algebraic thinking*. Tucson, AZ: Institute for Mathematics and Education, University of Arizona. Retrieved from <http://ime.math.arizona.edu/progressions>.

National Governors Association Center for Best Practices and Council of Chief State School Officers. (2014). *Common core state standards for mathematics*. Washington, DC: Authors. Retrieved from <http://www.corestandards.org/Math/Content/K>