



Alignment 1: K.OA.3

Grade	K
Domain	OA: Operations and Algebraic Thinking
Cluster	Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.
Standard	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 (e.g., $5=2+3$ and $5=4+1$).

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This task is meant to be presented as a sequence of questions posed by the teacher to the students.

Christina has 7 candies. Some of them are chocolate, and some of them are lemon.

- If she has one chocolate candy, how many lemon candies does she have if the rest are lemon?*
- If she has two chocolate candies, how many lemon candies does she have if the rest are lemon?*
- If she has 3, (4, 5, 6) chocolate candies, how many lemon candies does she have if the rest are lemon?*

Once a student finds one answer, ask him/her to find another. Ask the student to use objects, pictures, or equations to demonstrate his/her thinking. Not all pairs that total 7 are required to meet this standard, but students must include more than one.

Commentary:

As with several other tasks in the set, any number between 2 and 10 can be used in place of 7 to address K.OA.3. Although not necessary to meet this standard, listing the possible pairings of chocolate and lemon candies in a systematic way might help the student show that s/he has found all of the possible pairings.

Solution: 0 K.OA.2 Christina's Candies

Solutions for this task will vary, depending on which numbers students start with and how they represent their work. Students may represent their solutions as drawings or equations.

Possible equations: $1+6=7$; $2+5=7$; $3+4=7$; $4+3=7$; $5+2=7$; $6+1=7$
Note that the total (7) may appear on either side of the equation (e.g., $7=2+5$).

The specific wording of this question suggests that Christina had some of each flavor, thus eliminating the 7 chocolate and 0 lemon and the 0 chocolate and 7 lemon possibilities.