

## Item 4

Claim 3  
6.EE.B

SAMPLE	SCORE	RATIONALE
A	1	The response includes a statement of agreement with Lori, but does not provide evidence about where the 88 cm comes from. The response earns partial credit of 1 point.
B	2	The response is based on appropriate calculations for a stack of cups that is 95 cm tall. The student started with 95, subtracted 12 (the base of a cup), and divided the result by the growth factor of 2. The explanation includes agreement with Lori and a clear statement of support that $41\frac{1}{2}$ cups “can’t be.” The response earns full credit of 2 points.
C	2	This response includes a statement of agreement with Lori and a set of mathematically reasonable equations. The algebraic steps show the process leading to the result of a partial cup value, “which could never happen.” The response earns full credit of 2 points.
D	0	The student disagreed with Lori, and the response does not include a valid mathematical explanation. The response earns 0 points.
E	0	The student disagreed with Lori, and the response does not include a mathematically justifiable reason for doing so. The response consists of conjectures, without mathematical justification, and earns 0 points.
F	1	The student agreed with Lori, and provided a table of values that make sense for numbers of cups 4 and fewer. The explanation has a promising beginning (“my table shows a constant rate”), and there is evidence of some correct reasoning about the incorrect values in the table. However, the values used in the explanation are not mathematically sensible, and the explanation is therefore not complete as written. The response earns partial credit of 1 point.
G	2	The student agreed with Lori and provided a mathematically logical explanation based on reasoning about sums of even numbers. The response also includes a record of algebraic steps that lead to the result of a partial cup. The additional statement, “You can’t have .5 of a cup so it is impossible,” enriches this response beyond what is sufficient for the maximum of 2 points.
H	0	The student agreed with Lori and provided a mathematically logical explanation based on reasoning about sums of even numbers. The response also includes a record of algebraic steps that lead to the result of a partial cup. The additional statement, “You can’t have .5 of a cup so it is impossible,” enriches this response beyond what is sufficient for the maximum of 2 points.
I	1	The response includes a statement of agreement with Lori, and a partially complete explanation. If the response continued on to stacks with heights of 94 cm and 96 cm, then the response would be sufficiently complete. The response earns partial credit of 1 point.

**Item 4** *(continued)***Claim 3**  
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SAMPLE	SCORE	RATIONALE
J	0	The response includes implicit disagreement with Lori, and an explanation that is not contextually logical. This response earns 0 points.
K	2	This response includes a statement of agreement with Lori, and evidence of effective reasoning about odd and even numbers. The explanation refers to the growth rate, along with the initial height of 1 cup. Although the implications of the fact that both values—height of 1 cup and lid height—being even could be more explicit, the response earns full credit for including a valid mathematical explanation focused on the height needing to be even.