

Party Treats Task

Alexa baked some cookies for a party. She said, "If everyone I invited comes to the party, there will be 3 cookies for every person."

On the day of the party, when Alexa handed out the cookies, there were 9 cookies for each person.

Did more people come or fewer people come than Alexa invited? Explain your answer. a.

How many people may have attended the party? Use a diagram or words to explain b. your answer.

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3. Party Treats Task Scoring Guide

The CCSS for Mathematical Content (1 point)

3.OA.A.3 Gives a multiplication or division equation that shows there were 3 cookies for each person invited, or gives a multiplication or division equation that shows there were 9 cookies for each person who attended.

(1 Point)

Total Content Points _____

The CCSS for Mathematical Practice (2 points)

MP2 Writes a multiplication or division equation, and recontextualizes the equation by providing labels or referencing the context.

(1 Point)

(MP2: Reason abstractly and quantitatively.)

MP3 Provides valid mathematical reasoning supporting the answer that fewer people came than were invited.

(1 Point)

(MP3: Construct viable arguments and critique the reasoning of others.)

Total Practice Points_____

Total Awarded Points_____

The CCSS for Mathematical Content Addressed in This Task

Represent and solve problems involving multiplication and division.

3.OA.A.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

The CCSS for Mathematical Practice*

- 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.

*Gray text indicates Mathematical Practices that are not addressed in this task.

Students' responses to a mathematical task provide evidence of what they understand and are able to do in relation to the standards and practices. Across tasks, this cumulative evidence shows students' understanding and abilities within a domain. When students do not respond completely to all parts of a task, they provide insufficient evidence of their mathematical understanding and abilities and therefore do not fully demonstrate the expectations of the standards and practices aligned with that task.

A-1a

Task 3. Party Treats Task

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On the day of the party, when Alexa handed out the cookies, there were 9 cookies for each person.

a. Did more people come or fewer people come than Alexa invited? Explain your answer.

is less preavese onser er in vited 9 people and 3 came when you cookies you would have given them cookies, but if all 9 came you give them 3 cookies. What im saying would 15 more . hat cookies. b. How many people may have attended the party? Use a diagram or words to explain your answer. 780 Took es have CAME 404 27 cookies 104 would have to have ŧð gove the COOKIES.

A-1h

Write an equation that shows there were 3 cookies for each person invited. Tell what each c. number in the equation represents. The 27 in 27+3=9 27 +3=9 is for the cookies baked. The 3 is for how many Prophe came, And the nine is for the amount of sookies shared, Write an equation that shows there were 9 cookies for each person who came. 27:3=9. 13 the eigenstrian le rase the 27 (cookies Lakel) tivided by 3 (people came) would equal 9 (how many cookies).

Guide 1	Litho 365728
Total Content Points: 1	(3.OA.A.3)
Total Practice Points: 2	(MP2, MP3)

In Part A, the student constructs a mathematical problem using numbers from the prompt and concludes that "if more show up you would get less," thus providing a viable argument supporting the answer that fewer people came than were invited (MP3). Although the student incorrectly arranges values in the equation $(27 \div 3 = 9)$ in the first half of Part C, this same equation is given in the second half to show correctly that there were nine cookies for each person (3.OA.A.3). The equation is recontextualized through correct labeling (27 "cookies baked," 3 "people came," 9 "how many cookies") (MP2).

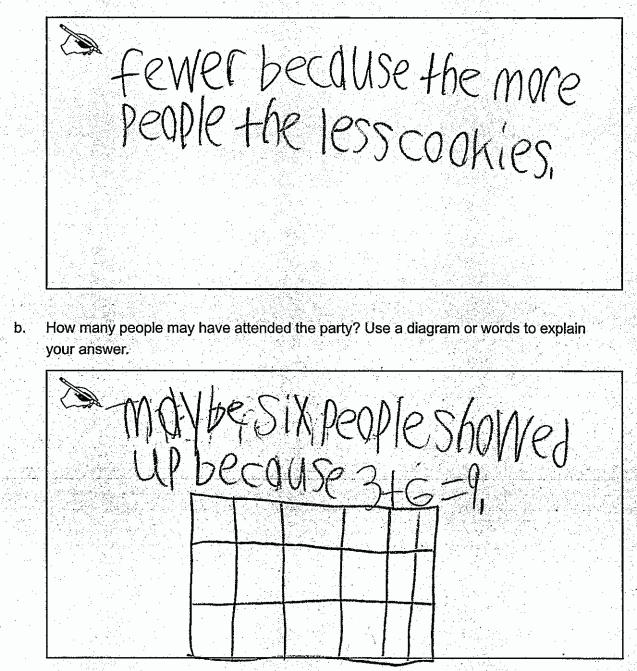
Total Awarded Points: 3 out of 3



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a. Did more people come or fewer people come than Alexa invited? Explain your answer.



es, foreach person ookies ţ Write an equation that shows there were 9 cookies for each person who came. tal cookies 2

Guide 2	Litho 381717
Total Content Points: 1	(3.OA.A.3)
Total Practice Points: 2	(MP2, MP3)

In Part A, the student supports the answer that fewer people came than were invited "because the more people the less cookies," thus providing a viable argument (MP3). In Part C, the student writes acceptable equations and provides correct labels. For example, in the first half of Part C, the student correctly writes and labels a multiplication equation that shows there were 3 cookies for each of 6 people invited ($6 \times 3 = 18$) (3.OA.A.3). The student also recontextualizes the equation by providing correct labels ("6 kids," "3 cookies for each person," "18 total cookies") (MP2).

Total Awarded Points: 3 out of 3



a.

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Did more people come or fewer people come than Alexa invited? Explain your answer.

éwer becuases he said the iele Wi How many people may have attended the party? Use a diagram or words to explain b. your answer. le /@



65 P \mathbb{C} ON Write an equation that shows there were 9 cookies for each person who came. P iles XC

Guide 3	Litho 380775
Total Content Points: 1	(3.OA.A.3)
Total Practice Points: 1	(MP2)

In Part A, the student mostly restates the prompt ("fewer becuase she said that if all of the people come there will be three for each person") and, therefore, does not provide a sufficient, viable argument that fewer people came than were invited (no credit for MP3). In Part C, the student writes acceptable equations and provides correct labels. For example, in the first half of Part C, the student correctly writes a division equation $(27 \div 3 = 9)$ that shows there were 3 cookies for each person invited (3.OA.A.3); the student also recontextualizes the equation by providing correct labels (27 total "cookies," 3 that "each person got," for 9 "people") (MP2).

Total Awarded Points: 2 out of 3

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On the day of the party, when Alexa handed out the cookies, there were 9 cookies for each person.

a. Did more people come or fewer people come than Alexa invited? Explain your answer.

Isn't alot but 9 cookies are alot.

b. How many people may have attended the party? Use a diagram or words to explain your answer.

Naybe there were five people at the

4h

375=15 3. Number of cookies per person. 5. People who came. 15. Toatle number of cookies.

Write an equation that shows there were 9 cookies for each person who came.

9X5=45

Guide 4	Litho 350599
Total Content Points: 1	(3.OA.A.3)
Total Practice Points: 1	(MP2)

In Part A, the student's response ("fewer people came because 3 cookies isn't alot but 9 cookies are alot") does not indicate that more cookies per person means fewer people attended or that fewer cookies per person means more people attended and, therefore, does not provide a viable argument that fewer people came than were invited (no credit for MP3). In the first half of Part C, the student correctly writes and labels a multiplication equation that shows there were 3 cookies for each of 5 people ($3 \times 5 = 15$) (3.OA.A.3); the student also recontextualizes the equation by providing correct labels ("3. Number of cookies per person"; "5. People who came"; "15. Toatle [total] number of cookies") (MP2).

Total Awarded Points: 2 out of 3

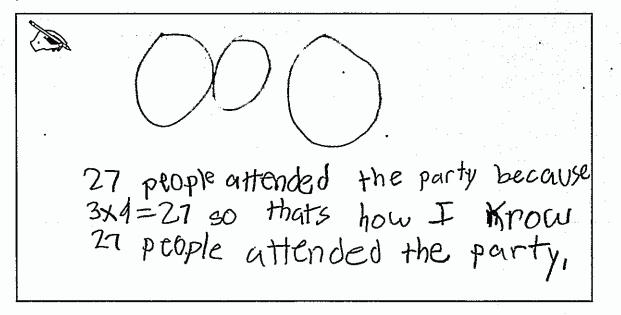
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On the day of the party, when Alexa handed out the cookies, there were 9 cookies for each person.

a. Did more people come or fewer people come than Alexa invited? Explain your answer.

More people because a first they said 3 cookies for each persoal then they said 4 cookies for each person,

b. How many people may have attended the party? Use a diagram or words to explain your answer.



A-5b

Ho 100 3 is how I got 81 3 is how many cooles they get and 27 is how man. People came. This is how many Write an equation that shows there were 9 cookies for each person who came. 9 x 27=243 cooits in all if they st9 cooires each

Guide 5	Litho 358208
Total Content Points: 1	(3.OA.A.3)
Total Practice Points: 1	(MP2)

In Part A, the student incorrectly concludes that more people came than were invited "because [at] first they said 3 cookies for each person then they said 9 cookies for each person"; therefore, the argument is not viable according to the task (no credit for MP3). In Part C, the student writes acceptable equations. For example, in the second half of Part C, the student writes a correct multiplication equation that shows there were 9 cookies for each person who attended ($9 \times 27 = 243$) (3.OA.A.3). By providing labels ("9 [cookies] each" and "243 [cookies] in all") and indicating in Part B and in the first half of Part C that 27 is "how many people came," the student recontextualizes the equation (MP2).

Total Awarded Points: 2 out of 3



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a. Did more people come or fewer people come than Alexa invited? Explain your answer.

Were More people come there Wound be less cookines for everyone, b. How many people may have attended the party? Use a diagram or words to explain vour answer. people 's hoved up because MX A=36

A-6b

c. Write an equation that shows there were 3 cookies for each person invited. Tell what each number in the equation represents.

Speople at Hke Would get 3 here were Crukies ŝ, Write an equation that shows there were 9 cookies for each person who came. X4 = X16 9 a

Guide 6	Litho 388594
Total Content Points: 1	(3.OA.A.3)
Total Practice Points: 1	(MP3)

In Part A, the student provides a viable argument, noting that fewer people came than were invited "because if there were more people came there would be less cookies for everyone," which demonstrates the desired conceptual understanding, even though this answer does not appear consistent with the answer given in Part C (MP3). In the second half of Part C, the student writes a correct multiplication equation $(4 \times 9 = 36)$ and a correct division equation $(36 \div 4 = 9)$ (3.OA.A.3); however, the student does not provide labels or reference the context of the task (no credit for MP2).

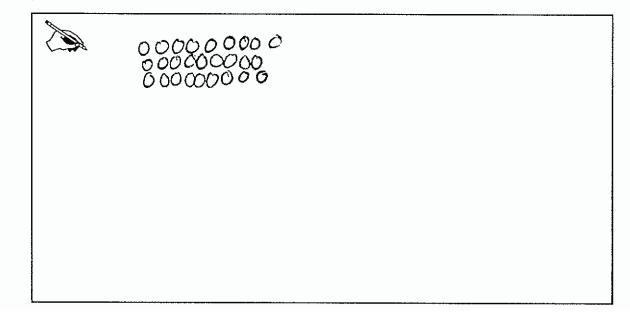
Total Awarded Points: 2 out of 3

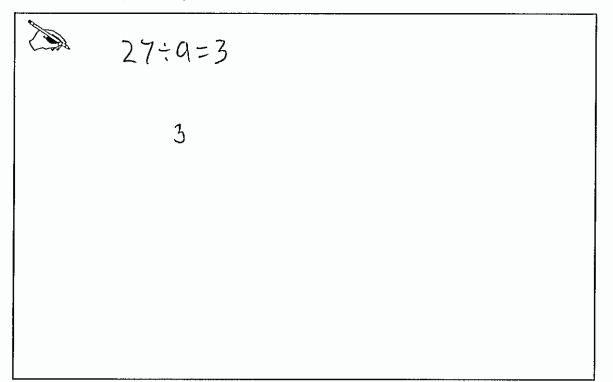
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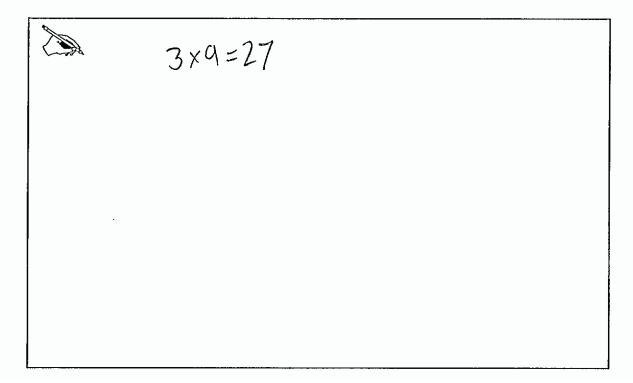
a. Did more people come or fewer people come than Alexa invited? Explain your answer.

b. How many people may have attended the party? Use a diagram or words to explain your answer.





Write an equation that shows there were 9 cookies for each person who came.



Guide 7 Litho	364778
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Total Content Points: 1 (3.OA.A.3)

Total Practice Points: 0

In Part A, the student's response summarizes the prompt ("fewer, because if everyone came then each person would get 3") and, therefore, does not provide a viable argument that fewer people came than were invited (no credit for MP3). In Part C, the student writes a correct division equation $(27 \div 9 = 3)$ and a correct multiplication equation $(3 \times 9 = 27)$ (3.OA.A.3); however, the student does not recontextualize either equation by providing labels or by referencing the context of the task (no credit for MP2).

Total Awarded Points: 1 out of 3

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-8a

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Acookies People how many Lookies tach Capilines péople Write an equation that shows there were 9 cookies for each person who came. -Howman ecokies Peoch Peo \bigcirc Coulle People وۍ

Guide 8 Litho 387737

Total Content Points: 0

Total Practice Points: 1 (MP2)

In Part A, the student's response restates the prompt ("if every body came to the party they would each get 3 cookies but every body got 9") and, therefore, does not provide a viable argument that fewer people came than were invited (no credit for MP3). In Part C, the student's division equations $(5 \div 15 = 3 \text{ and } 3 \div 27 = 9)$ are incorrect (no credit for 3.OA.A.3); however, the appropriate numbers are correctly labeled (5 "people" divide 15 "cookies" so that 3 is "how many cookies each kid got") and adequately recontextualize the equations (MP2).

Total Awarded Points: 1 out of 3

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es. Cause if everone Came then the would have n 3 cookies but the people r came got 9 cookies not3.

b. How many people may have attended the party? Use a diagram or words to explain your answer.



Y stands for how m kies each person got. 3, how many Cookies el son would have gotte Write an equation that shows there were 9 cookies for each person who came.

21 cookies were *lere*

Guide 9	Litho 386435

Total Content Points: 1 (3.OA.A.3)

Total Practice Points: 0

In Part A, the student's conclusion lacks clarity and restates the prompt ("Yes. Cause if everone had came then [they] would have [gotten] 3 cookies but the people that came got 9 cookies not 3") and, therefore, is not a viable argument supporting that fewer people came than were invited (no credit for MP3). In the first half of Part C, the student writes a division equation that correctly indicates how many total cookies would be divided so that the correct number of people received three cookies ($9 \div 3 = 3$) (3.OA.A.3). However, the equation is incorrectly recontextualized ("9...gotten") (no credit for MP2).

Total Awarded Points: 1 out of 3

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a. Did more people come or fewer people come than Alexa invited? Explain your answer.

Rot work 50 Less People would have to come. Rot work 50 Less People would have to come. Cause if will only eight 6. she needs 15 for would eser yody diam'r

b. How many people may have attended the party? Use a diagram or words to explain your answer.

and 3 trays so it is 15 trays in all

A-10b

9:3=3 she has 3 cookies left Write an equation that shows there were 9 cookies for each person who came. 15+4=9

Guide 10

Litho 374389

Total Content Points: 0

Total Practice Points: 0

In Part A, the student concludes that fewer people came than invited, but the argument does not indicate that more cookies per person means fewer people attended, or vice-versa ("3 cookies – 9 cookies would not work . . . cause it will only equal 6. She needs 15 for everbody"); therefore, a valid argument is not provided as required by the task (no credit for MP3). In Part C, the student writes a correct division equation $(9 \div 3 = 3)$ but has a different quotient for the same equation in Part B $(9 \div 3 = 15)$ (no credit for 3.OA.A.3). The student does not recontextualize the equation with correct labels or correct references to the context of the task (no credit for MP2).

Total Awarded Points: 0 out of 3

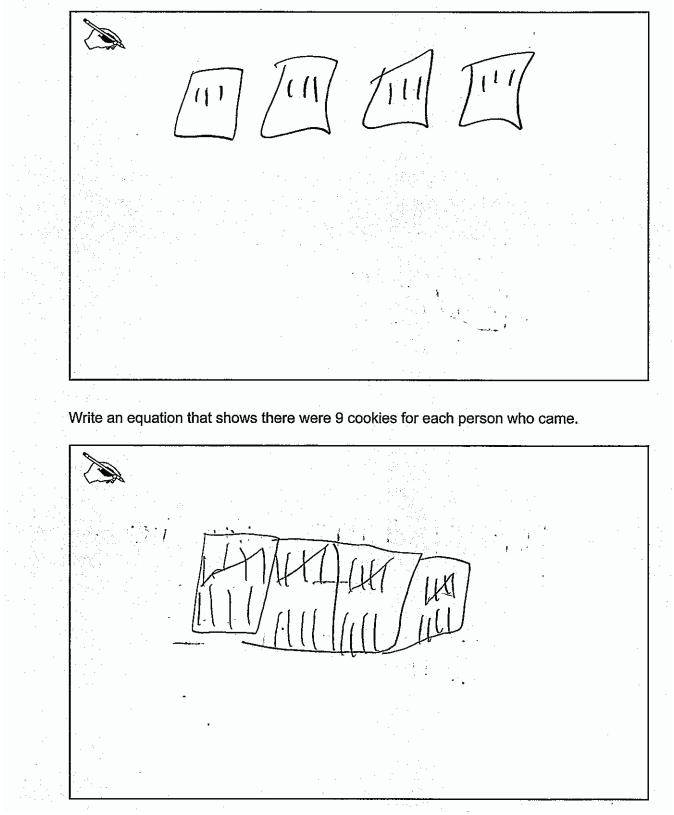
A-11a

Task 3. Party Treats Task

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- On the day of the party, when Alexa handed out the cookies, there were 9 cookies for each person.
- a. Did more people come or fewer people come than Alexa invited? Explain your answer.

ner she more How many people may have attended the party? Use a diagram or words to explain b. your answer. rer makes four.



Guide 11

Litho 366048

Total Content Points: 0

Total Practice Points: 0

In Part A, the student's conclusion is incorrect ("Nether [Neither] she baked more cookies then she needed") and, therefore, does not provide a viable argument as required by the task (no credit for MP3). Although diagrams are given in Parts B and C, the student does not write correct equations for any part of the task (no credit for 3.OA.A.3); nor does the student provide correct labels to recontextualize the answers to the task (no credit for MP2).

Total Awarded Points: 0 out of 3