3MA SLM-T



New York State Testing Program

2017 Common Core

Mathematics Test



Scoring Leader Materials

Training Set

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2-Point Holistic Rubric

2 Point	 A two-point response includes the correct solution to the question and demonstrates a thorough understanding of the mathematical concepts and/or procedures in the task. This response indicates that the student has completed the task correctly, using mathematically sound procedures contains sufficient work to demonstrate a thorough understanding of the mathematical concepts and/or procedures may contain inconsequential errors that do not detract from the 			
	correct solution and the demonstration of a thorough understanding			
1 Point	A one-point response demonstrates only a partial understanding of the mathematical concepts and/or procedures in the task.			
	This response			
	 correctly addresses only some elements of the task may contain an incorrect solution but applies a mathematically appropriate process 			
	• may contain the correct solution but required work incomplete			
0 Point*	A zero-point response is incorrect, irrelevant, incoherent, or contains a correct solution obtained using an obviously incorrect procedure. Although some elements may contain correct mathematical procedures, holistically they are not sufficient to demonstrate even a limited understanding of the mathematical concepts embodied in the task.			

*Condition Code A is applied whenever a student who is present for a test session leaves an entire constructed-response question in that session completely blank (no response attempted).

Score Point	IS:
3 Point	A three-point response includes the correct solution(s) to the question and demonstrates a thorough understanding of the mathematical concepts and/or procedures in the task.
	This response
	 indicates that the student has completed the task correctly, using mathematically sound procedures
	 contains sufficient work to demonstrate a thorough understanding of the mathematical concepts and/or procedures
	 may contain inconsequential errors that do not detract from the correct solution(s) and the demonstration of a thorough understanding
2 Point	A two-point response demonstrates a partial understanding of the mathematical concepts and/or procedures in the task.
	This response
	 appropriately addresses most, but not all aspects of the task using mathematically sound procedures
	 may contain an incorrect solution but provides sound procedures, reasoning, and/or explanations
	 may reflect some minor misunderstanding of the underlying mathematical concepts and/or procedures
1 Point	A one-point response demonstrates only a limited understanding of the mathematical concepts and/or procedures in the task.
	This response
	 may address some elements of the task correctly but reaches an inadequate solution and/or provides reasoning that is faulty or incomplete
	 exhibits multiple flaws related to misunderstanding of important aspects of the task, misuse of mathematical procedures, or faulty mathematical reasoning
	 reflects a lack of essential understanding of the underlying mathematical concepts may contain the correct solution(s) but required work is limited
0 Point*	A zero-point response is incorrect, irrelevant, incoherent, or contains a correct solution obtained using an obviously incorrect procedure. Although some elements may contain correct mathematical procedures, holistically they are not sufficient to demonstrate even a limited understanding of the mathematical concepts embodied in the task.

3-Point Holistic Rubric

*Condition Code A is applied whenever a student who is present for a test session leaves an entire constructed-response question in that session completely blank (no response attempted).

2017 2- and 3-Point Mathematics Scoring Policies

Below are the policies to be followed while scoring the mathematics tests for all grades:

- 1. If a student shows the work in other than a designated "Show your work" or "Explain" area, that work should still be scored.
- 2. If the question requires students to show their work, and the student shows appropriate work and clearly identifies a correct answer but fails to write that answer in the answer blank, the student should still receive full credit.
- If students are directed to show work, a correct answer with no work shown receives no credit.
- 4. If students are **not** directed to show work, any work shown will **not** be scored. This applies to items that do **not** ask for any work and items that ask for work for one part and do **not** ask for work in another part.
- If the student provides one legible response (and one response only), the rater should score the response, even if it has been crossed out.
- 6. If the student has written more than one response but has crossed some out, the rater should score only the response that has **not** been crossed out.
- Trial-and-error responses are not subject to Scoring Policy #6 above, since crossing out is part of the trial-and-error process.
- If a response shows repeated occurrences of the same conceptual error within a question, the conceptual error should **not** be considered more than once in gauging the demonstrated level of understanding.
- In questions requiring number sentences, the number sentences must be written horizontally.
- 10. Condition Code A is applied whenever a student who is present for a test session leaves an entire constructed-response question in that session completely blank (no response attempted). This is not to be confused with a score of zero wherein the student does respond to part or all of the question but that work results in a score of zero.

45	Write a fraction that is less than $\frac{1}{3}$ using 1 as the numerator.
	Answer
	Explain why the answer you chose is less than $\frac{1}{3}$.
	Answer

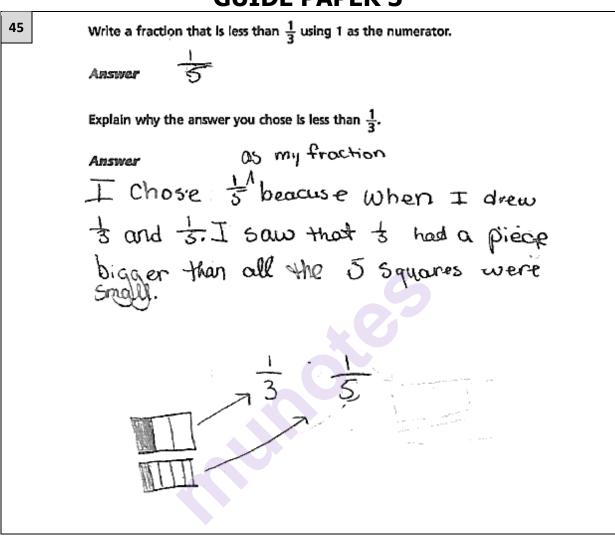
$\frac{1}{4}$ or any other fraction less than $\frac{1}{3}$
Answer
Explain why the answer you chose is less than $\frac{1}{3}$.
Answer
Since $\frac{1}{4}$ has a greater value in the denominator but the same numerator as $\frac{1}{3}$
the whole is divided into a greater number of parts, so each part is smaller.
Or other valid response

GUIDE PAPER 1 Additional 45 Write a fraction that is less than A using as the numerator. Answer Explain why the answer you chose is less than 긐 Answel First I client a congruent rectangle. Then I compared & and 3 and SCW - 3 is greater, thank. Finally I know that & is

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct fraction is chosen and the explanation is correct.

GUIDE PAPER 2 Write a fraction that is less than $\frac{1}{3}$ using 1 as the numerator. 45 Answer Explain why the answer you chose is less than $\frac{1}{3}$. Answer If the numerators are the same, look at the denomanatorithe smaller the denomanator the bigger the Fraction.

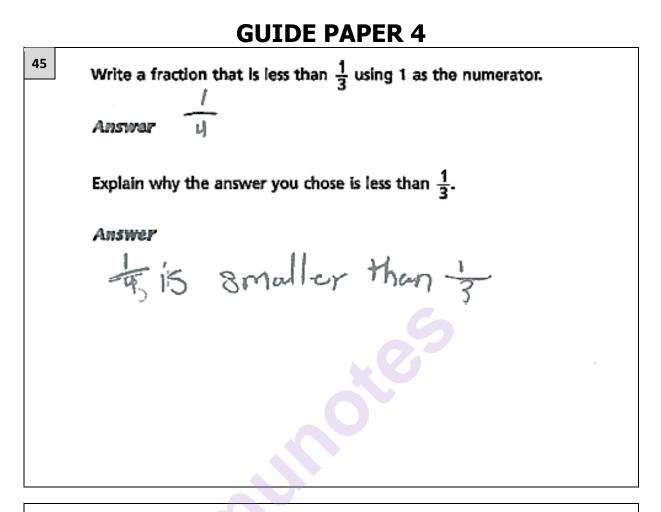
This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct fraction is chosen as an answer. The response correctly compares denominators of fractions to explain the answer.



GUIDE PAPER 3

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct fraction is chosen, and a correct comparison of fractions in terms of parts of the whole is provided.



This response demonstrates only a partial understanding of the mathematical concepts in the task. Although a correct fraction is chosen, the explanation is incomplete: no explanation of why $\frac{1}{4}$ is less than $\frac{1}{3}$ is provided. The response addresses only some elements of the task correctly.

GUIDE PAPER 5 45 Write a fraction that is less than $\frac{1}{3}$ using 1 as the numerator. Answer Explain why the answer you chose is less than $\frac{1}{3}$. Answer to is bigger than is because the bigger the numerator the smaller the size.

This response demonstrates only a partial understanding of the mathematical concepts in the task. Although a correct fraction is chosen, the explanation is incorrect. The response addresses only some elements of the task correctly.

GUIDE PAPER 6 45 Write a fraction that is less than $\frac{1}{3}$ using 1 as the numerator. Answer Explain why the answer you chose is less than $\frac{1}{2}$. Answer First, I drew a congruent rectangle. Then, I split the rectangle into half. Finally, I shale the rectangle and saw is greater than 1.

This response demonstrates only a partial understanding of the mathematical concepts in the task. Although a correct fraction is chosen, the required work is incomplete: no explanation of why $\frac{1}{8}$ is less than $\frac{1}{3}$ is provided. The response addresses only some elements of the task correctly.

GUIDE PAPER 7 45 Write a fraction that is less than $\frac{1}{3}$ using 1 as the numerator. Answer Explain why the answer you chose is less than $\frac{1}{2}$. Answer + is less than & because 3 is greater than 1.

Score Point 0 (out of 2 points)

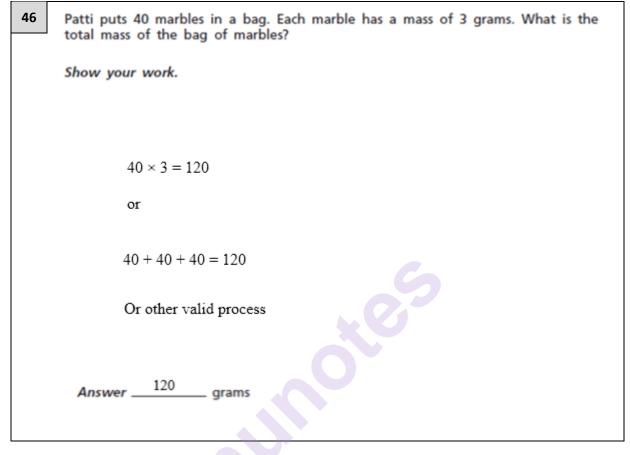
This response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. A fraction greater than $\frac{1}{3}$ is incorrectly chosen as an answer and an incorrect explanation is provided.

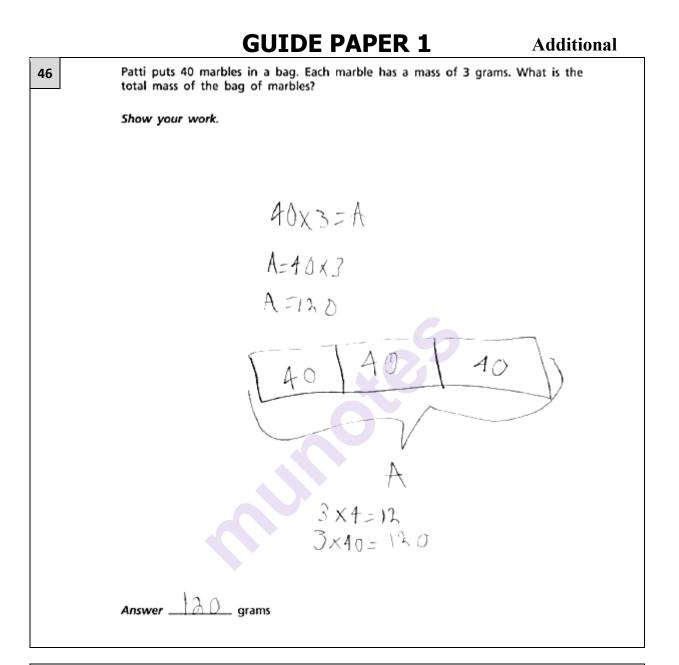
GUIDE PAPER 8 Additional 45 Write a fraction that is less than $\frac{1}{3}$ using 1 as the numerator. Answer Explain why the answer you chose is less than $\frac{1}{3}$. T is less than 3 because 3 is preater than 2. Answer

This response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. The answer and explanation are incorrect.

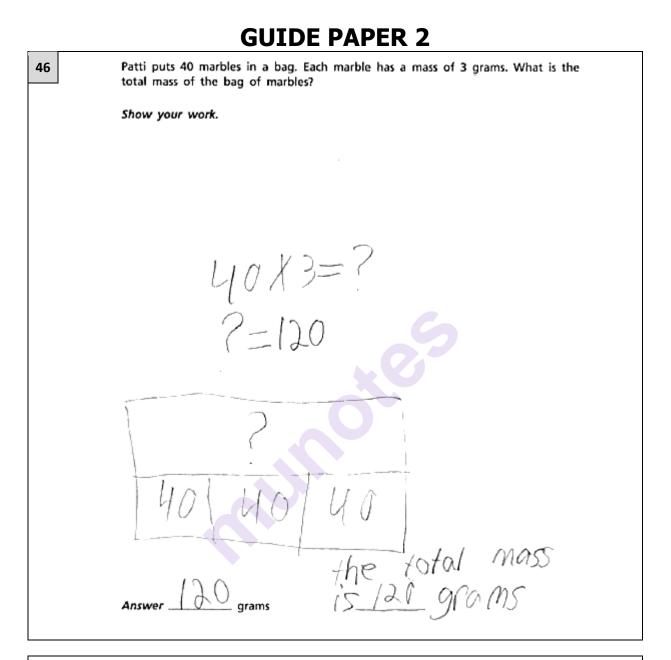
46	Patti puts 40 marbles in a bag. Each marble has a mass of 3 grams. What is the total mass of the bag of marbles?
	Show your work.
	Answer grams

EXEMPLARY RESPONSE





This response demonstrates a thorough understanding of the mathematical concepts in the task. The total mass of the bag of marbles is correctly determined using a mathematically sound procedure.



This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct procedure is followed to determine the total mass of the bag of marbles.

Patti puts 40 marbles in a bag. Each marble has a mass of 3 grams. What is the total mass of the bag of marbles?
Show your work.
40
+40
40
120
Answer 120 grams

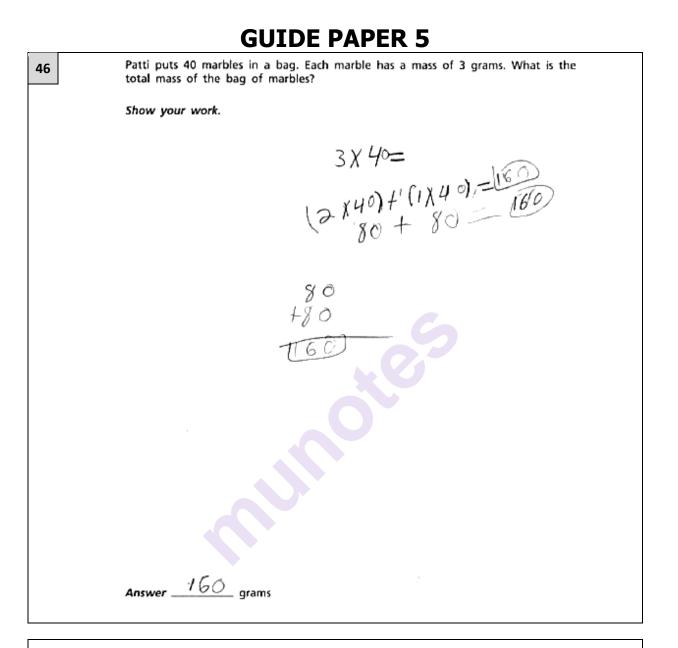
GUIDE PAPER 3

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct procedure of repeated addition is applied to determine the correct solution.

	GUIDE PAPER 4
46	Patti puts (40 marbles) in a bag. Each marble has a mass of 3 grams. What is the total mass of the bag of marbles?
	Show your work.
	$40 \times 3 = 70$
	The total mass of marbles in each bag is 70.
	bag is 70.
	Answer 70 grams

This response demonstrates only a partial understanding of the mathematical concepts in the task. Although a correct process is followed, the solution is incorrect. The response correctly addresses only some elements of the task.



This response demonstrates only a partial understanding of the mathematical concepts in the task. Although the work contains a correct multiplication procedure, a calculation error (1×40) results in an incorrect answer. The response contains an incorrect solution but applies a mathematically appropriate process.

	Patti puts 40 marbles in a bag. Each marble has a mass of 3 grams. What is the
46	total mass of the bag of marbles?
	Show your work.
	40
	+40
	+40
	+40
	760
	(Jojjanmi Co
	Answer 60 grams

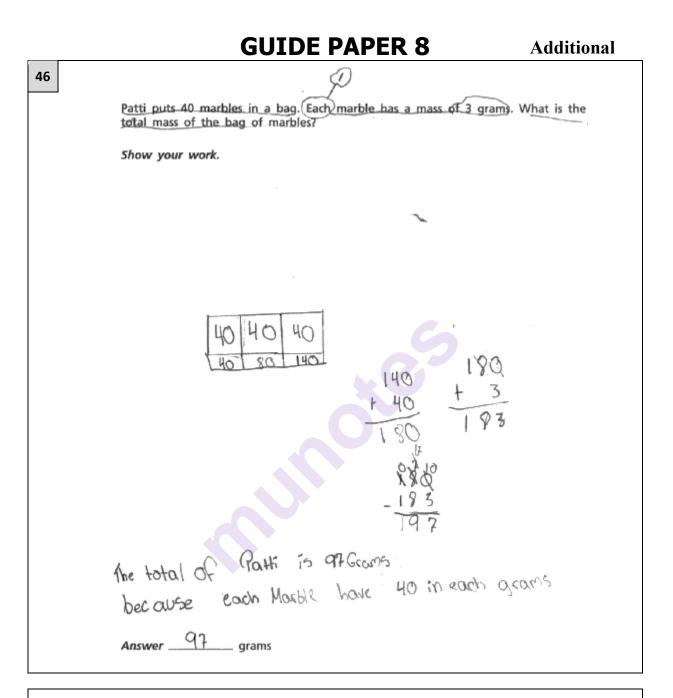
GUIDE PAPER 6

Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. A procedure of repeated addition is followed to determine the solution; however, the extra addition of another 40 marbles results in an incorrect total mass of the bag of marbles. The response contains an incorrect solution but applies a mathematically appropriate process.

	GUIDE PAPER 7
46	Patti puts 40 marbles in a bag. Each marble has a mass of 3 grams. What is the total mass of the bag of marbles?
	show your work. 40m?nabag 3grams
	3,6,9,12,15,18,21,24,27,30,33, 36,39,0
	Answer grams

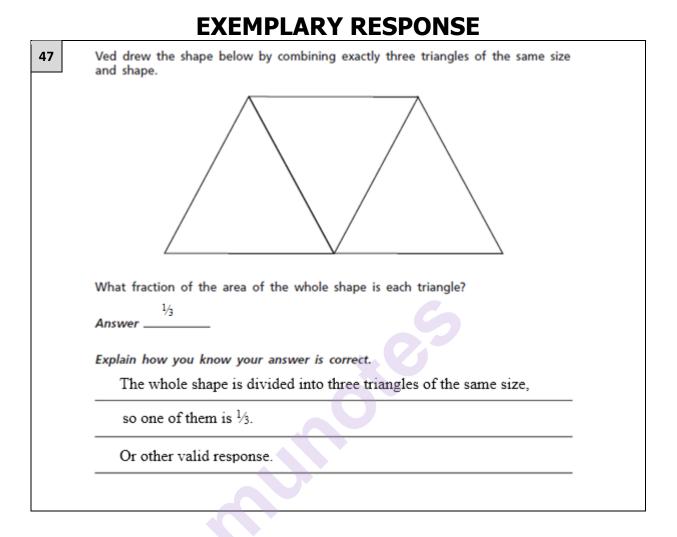
This response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. The work shows counting by three's and suggests no understanding.



Although the response has three groups of 40, holistically, this is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. Extra additions and subtraction show no understanding of the process.

47	Ved drew the shape below by combining exactly three triangles of the same size and shape.		
	and shape.		
	What fraction of the area of the whole shape is each triangle? Answer Explain how you know your answer is correct.		

E.



	GUIDE PAPER 1	Additional
47	Ved drew the shape below by combining exactly three triangles and shape.	of the same size
	What fraction of the area of the whole shape is each triangle?	
	Answer 3	
	Explain how you know your answer is correct.	
	I know my anuser is correct be	ecause
	this trapezoid is cit into	thirds
	and I think that each of	Chem
	are one third.	
	· · · · · ·	

This response demonstrates a thorough understanding of the mathematical concepts in the task. The fraction is identified correctly and a correct explanation is provided.

 GUIDE PAPER 2
Ved drew the shape below by combining exactly three triangles of the same size and shape.
What fraction of the area of the whole shape is each triangle?
Answer 1/3
Explain how you know your answer is correct.
I know my answer is correct because
1/3 + 1/3 + 1/3 = 3/3 and $3/3$ is a whole.

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct answer and explanation are provided.

	GUIDE PAPER 3
47	Ved drew the shape below by combining exactly three triangles of the same size and shape.
	What fraction of the area of the whole shape is each triangle?
	Answer
	Explain how you know your answer is correct.
	There are three parts and
	There are three parts and one part is '3.
	V

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The fraction is identified correctly and a correct explanation is provided.

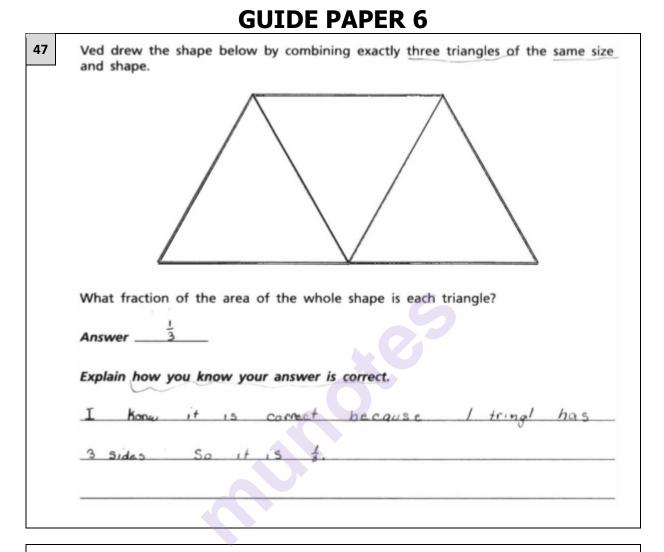
GUIDE PAPER 4

Score Point 1 (out of 2 points)

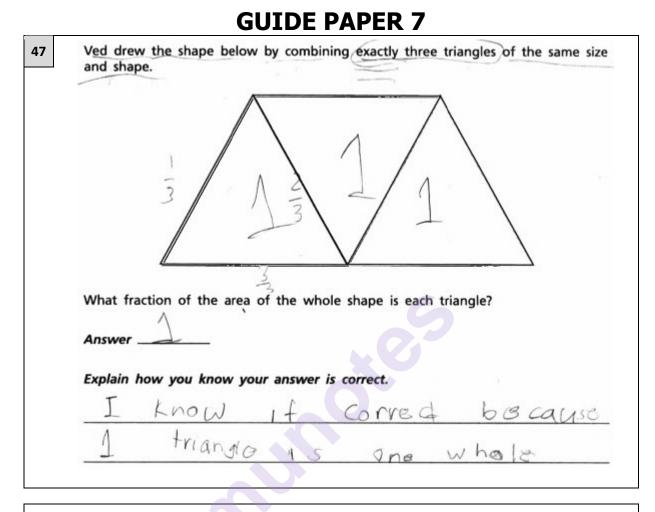
This response demonstrates only a partial understanding of the mathematical concepts in the task. Although the response contains a correct explanation, the answer is incorrect. The response addresses only some elements of the task correctly.

	GUIDE PAPER 5
47	Ved drew the shape below by combining exactly three triangles of the same size and shape.
	What fraction of the area of the whole shape is each triangle?
	Explain how you know your answer is correct. I know because there are 3 to a.gels
	and they where putt to gether and
	3 is=to Thole.
	3

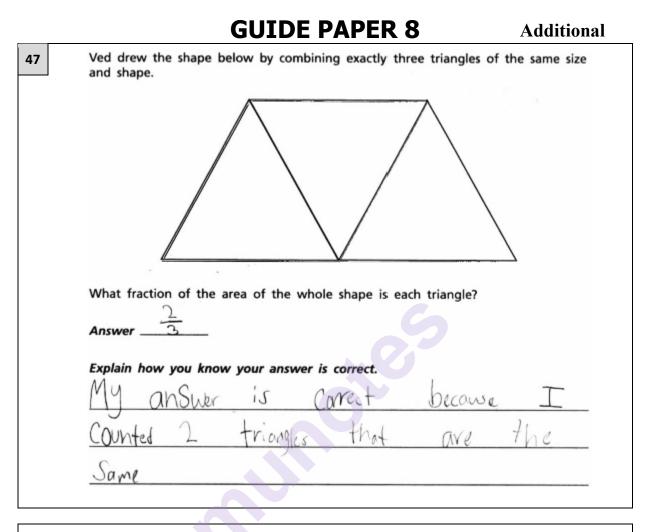
This response demonstrates only a partial understanding of the mathematical concepts in the task. The work correctly identifies thirds; however, the answer is incorrect. The response addresses only some elements of the task correctly.



This response demonstrates only a partial understanding of the mathematical concepts in the task. Although the fraction is identified correctly, the explanation is faulty. The response addresses only some elements of the task correctly.



Although the work contains correct fractions $\frac{1}{3}$, $\frac{2}{3}$, $\frac{3}{3}$, holistically the response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. The answer and explanation are incorrect.



This response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. The answer and explanation are incorrect.

Explain your answer.	

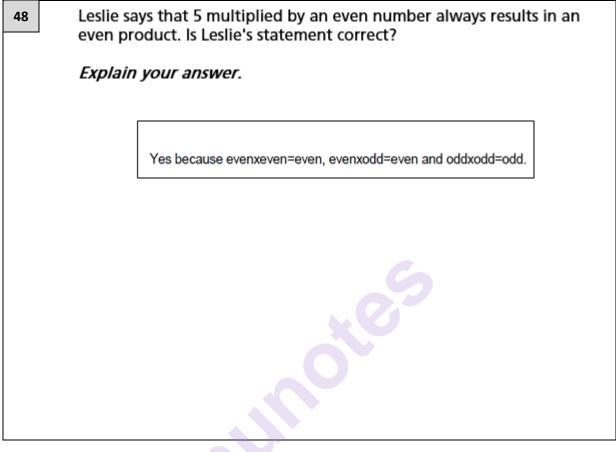
П

B Leslie says that 5 multiplied by an even number always results in an even product. Is Leslie's statement correct? *Explain your answer.* Yes, the product of an even or odd number and an even number will always be an even number. Or other valid response

GUIDE PAPER 1 Additional 48 Leslie says that 5 multiplied by an even number always results in an even product. Is Leslie's statement correct? *Explain your answer.* Leslie is correct because any number multiplied with a even number should equal a even product.

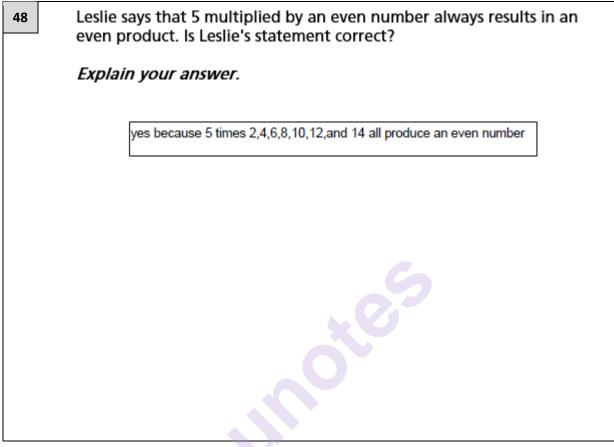
Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct pattern is established to support the answer.



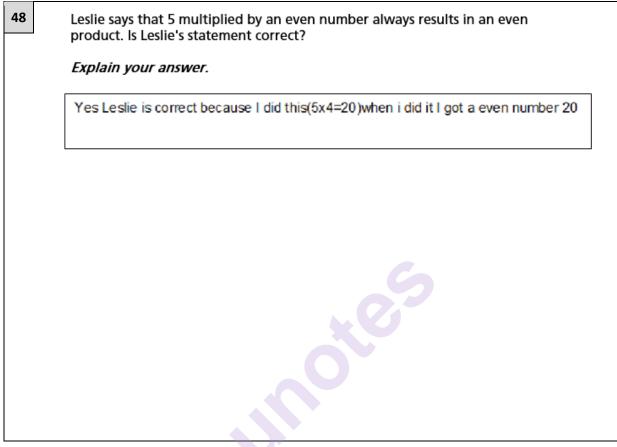
Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct pattern is established to support the answer.



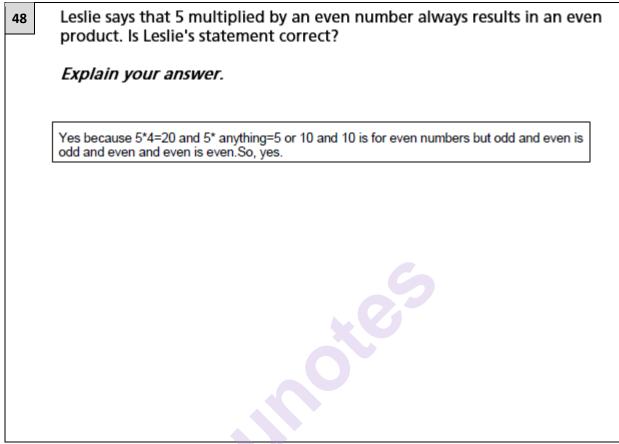
Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The work contains multiple correct examples to support the answer. The response contains sufficient work to demonstrate a thorough understanding.



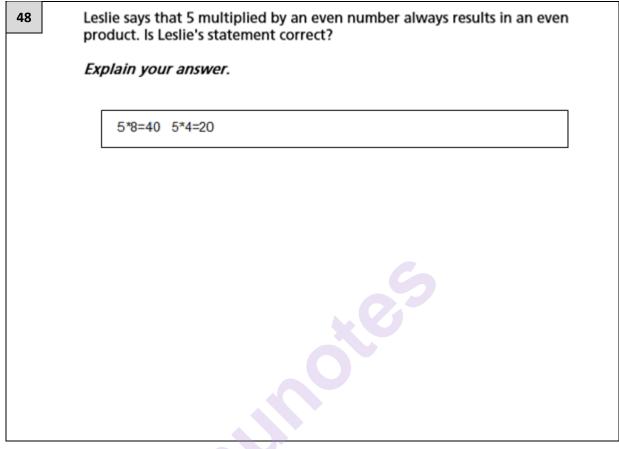
Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. Although the statement is correct, only one example of multiplication by an even number is provided. The response does not contain sufficient work to establish a thorough understanding.



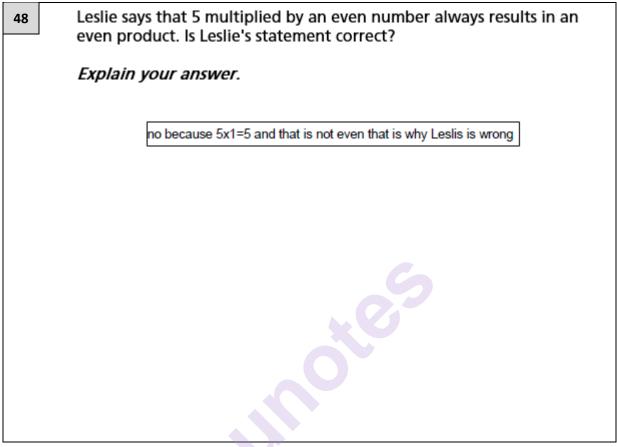
Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The work suggests understanding of multiplication patterns; however, the statement about the product of odd and even numbers is incorrect. The response addresses only some elements of the task correctly.



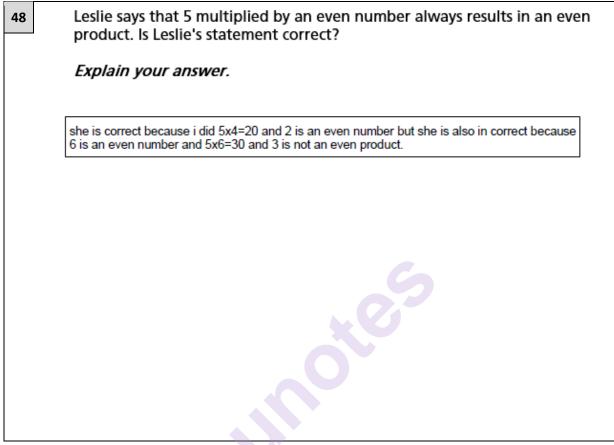
Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. Two correct examples of multiplication by an even number are provided; however, the response does not draw a conclusion. The response correctly addresses only some elements of the task.



Score Point 0 (out of 2 points)

This response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. The response misinterprets the question and multiplies 5 by an odd rather than an even number, and an incorrect conclusion is drawn.



Score Point 0 (out of 2 points)

Although the work contains correct examples of multiplication by an even number, the procedure of looking at the first digit of the number to determine if it is an even or odd number shows no understanding. Holistically, this response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task.

49	Mrs. Ruiz bought 5 bags of balloons for a party. Each bag contained 70 balloons. Andy said Mrs. Ruiz bought a total of 75 balloons. Andy is incorrect.
	What error did Andy make when calculating the total number of balloons?
	What is the total number of balloons Mrs. Ruiz bought?
	Show your work.
	Answer balloons

EXEMPLARY RESPONSE

i r

49	Mrs. Ruiz bought 5 bags of balloons for a party. Each bag contained 70 balloons. Andy said Mrs. Ruiz bought a total of 75 balloons. Andy is incorrect.
	What error did Andy make when calculating the total number of balloons?
	Andy may have added 70 and 5 and got 75 when he should have multiplied 70 and 5.
	Or other valid response
	What is the total number of balloons Mrs. Ruiz bought? Show your work.
	$5 \times 70 = 350$ Or other valid response Answer 350 balloons

49	Mrs. Ruiz bought 5 bags of bailoons for a party. Each bag contained 70 balloons. Andy said Mrs. Ruiz bought a total of 75 balloons. Andy is incorrect. What error did Andy make when calculating the total number of balloons?
	Andy added instead of using multiplication.
	What is the total number of balloons Mrs. Ruiz bought?
	show your work. × 5 350 balloons
	Answer 350 balloons

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The error is correctly explained and a correct procedure is applied to determine the total number of balloons.

	GUIDE PAPER 2
49	Mrs. Ruiz bought 5 bags of balloons for a party. Each bag contained 70 balloons. Andy said Mrs. Ruiz bought a total of 75 balloons. Andy is incorrect.
	What error did Andy make when calculating the total number of balloons? The error and did not multiplie 5x70 he
	multiplied 5x15 which equals 75 which was his answer.
	What is the total number of balloons Mrs. Ruiz bought?
	Show your work.
	(70) (70) (70) (70) (70) $(70)5 \times 70 = 350$
	5×70=350
	Answer 350 balloons

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The error is correctly explained and a correct procedure is followed to determine the solution.

49	Mrs. Ruiz bought 5 bags of balloons for a party. Each bag contained 70 balloons. Andy said Mrs. Ruiz bought a total of 75 balloons. Andy is
	incorrect. What error did Andy make when calculating the total number of balloons?
	The error. Andy made was each loag had sevently balloons, He
	did plus five inseal of times five so he got the incorrect
	answer of balloons.
	What is the total number of balloons Mrs. Ruiz bought?
	Show your work. $ \begin{array}{r} $
	Answer 350 balloons

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The error is correctly explained and the total number of balloons is correctly calculated.

GUIDE PAPER 4 49 Mrs. Ruiz bought 5 bags of balloons for a party. Each bag contained 70 balloons. Andy said Mrs. Ruiz bought a total of 75 balloons. Andy is incorrect. What error did Andy make when calculating the total number of balloons? Andy is wrong because he said it was 75 when she brought in 70. What is the total number of balloons Mrs. Ruiz bought? Show your work. 7 ×5=35 70 ×5=350 balloons

Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. Although a correct procedure is followed to determine the solution, the explanation is incorrect. The response addresses only some elements of the task correctly.

	GUIDE PAPER 5
49	Mrs. Ruiz bought 5 bags of balloons for a party. Each bag contained 70 balloons. Andy said Mrs. Ruiz bought a total of 75 balloons. Andy is Incorrect.
	What error did Andy make when calculating the total number of balloons? Andy messed up by adding. He added in- stead of multiplying. I know this becc 70+5=75, which is his answer.
	What is the total number of balloons Mrs. Ruiz bought?
	show your work. 775 745 Jalloons
	Answer 145 balloons

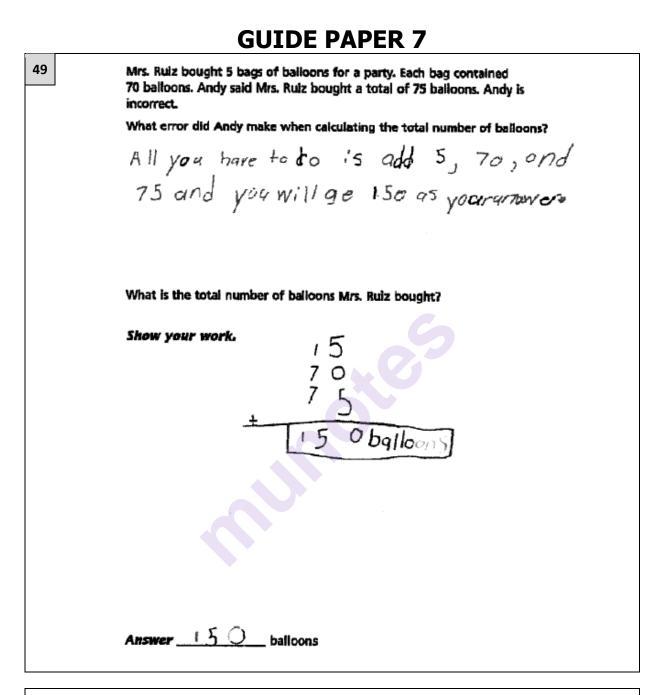
Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. The explanation is correct; however, an incorrect number of balloons per bag is used to determine the solution and the solution has a calculation error. The response contains an incorrect solution but applies a mathematically appropriate process.

49	Mrs. Ruiz bought 5 bags of balloons for a party. Each bag contained 70 balloons. Andy said Mrs. Ruiz bought a total of 75 balloons. Andy is incorrect. What error did Andy make when calculating the total number of balloons?
	the error that andy did was she did 70+3 not
	70×5! r
	What is the total number of balloons Mrs. Ruiz bought?
	Show your work.
	75 33555 375
	Answer 450 balloons

Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. The error is explained correctly; however, the work is incorrect: 75 balloons is multiplied by the number of bags, and then an extra addition operation is performed. The response addresses only some elements of the task correctly.



Score Point 0 (out of 2 points)

This response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. The explanation and work are incorrect.

GUIDE PAPER 8 Additional 49 Mrs. Ruiz bought 5 bags of balloons for a party. Each bag contained 70 bailoons. Andy said Mrs. Ruiz bought a total of 75 balloons. Andy is incorrect. What error did Andy make when calculating the total number of balloons? e hought 5 lags for a party. And each contained 70 hallcons. So 75-5-15. What is the total number of balloons Mrs. Ruiz bought? Show your work. 75-5:15 11.1.11 = 75 111 Answer balloons

Score Point 0 (out of 2 points)

This response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. The explanation and work are incorrect.

ļ	A band has 36 members. They are arranged into 6 equal rows. How many band members are in each row?
	Show your work.
	Can the same 36 band members be placed into exactly 7 equal rows? Why o why not?
	Explain your answer.
-	
-	
-	

EXEMPLARY RESPONSE

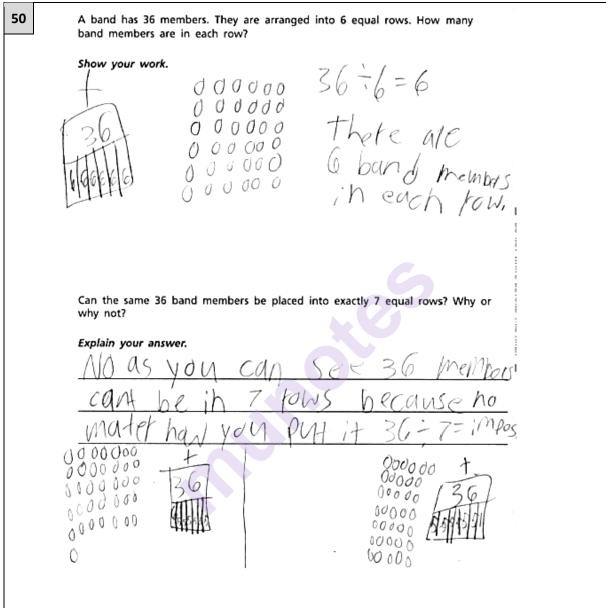
A band has 36 members. They are arranged into 6 equal rows. How many band members are in each row?
Show your work.
$36 \div 6 = 6$ band members in each row
Or other valid response
Can the same 36 band members be placed into exactly 7 equal rows? Why or why not?
Explain your answer.
No, because 7 is not a factor of 36.

GUIDE PAPER 1 Additional 50 A band has 36 members. They are arranged into 6 equal rows. How many band members are in each row? Show your work. lete are six in each row. Can the same 36 band members be placed into exactly 7 equal rows? Why or why not? Explain your answer. ar

Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The number of band members in each row is correctly calculated. The explanation is complete and correct.





Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct procedure is followed to determine the number of band members per row. Two tables are created to correctly show that it is not possible to place band members in 7 equal rows.

50	A band has 36 members. They are arranged into 6 equal rows. How many band members are in each row?
	Show your work.
	1234567=36
	Can the same 36 band members be placed into exactly 7 equal rows? Why or why not?
	Explain your answer.
	No, because if you try to divide 7 equality you dont get 36. 7,14,21,28,35,42.

Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct chart is drawn to identify the number of band members in each row. The explanation assumes the same number of people per row ($6 \times 7 = 42$) and is correct.

50	A band has 36 members. They are arranged into 6 equal rows. How many band members are in each row?
	Show your work.
	36-6-6
	Can the same 36 band members be placed into exactly 7 equal rows? Why or why not?
	Explain your answer.
	Noy because you can only do it by
	by paped 4's.

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The number of band members in each row is correctly calculated. The explanation only covers 4, 6, and 9 as factors of 36 and is not complete to establish a thorough understanding. The response appropriately addresses most, but not all aspects of the task.

50	A band has 36 members. They are arranged into 6 equal rows. How many band members are in each row?
	Show your work.
	$6 \times 6 = 36$
	Can the same 36 band members be placed into exactly 7 equal rows? Why or why not?
	Explain your answer.
	No they con not because
	the roas will not be
	equil

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The number of band members in each row is correctly determined; however, the explanation is incomplete. The response addresses most but not all aspects of the task.

	GUIDE PAPER 6
50	A band has 36 members. They are arranged into 6 equal rows. How many band members are in each row?
	Can the same 36 band members be placed into exactly 7 equal rows? Why or why not?
	Explain your answer.
	It could not be 7 recause then the
	BOWS will have New Redrie and there
	Will not be 36 pople.

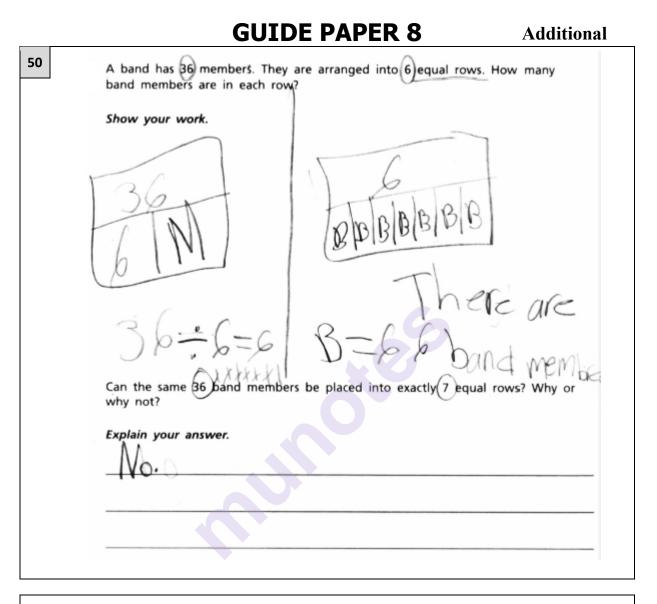
Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The chart correctly represents the number of band members in each row; however, the explanation is weak and reflects some misunderstanding. The response addresses most but not all aspects of the task.

GUIDE PAPER 7 50 A band has 36 members. They are arranged into 6 equal rows. How many band members are in each row? Show your work. Answer. 36-6=6 Can the same 36 band members be placed into exactly 7 equal rows? Why or why not? Explain your answer. CUID

Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. Although a correct procedure is followed to calculate the number of band members in each row, the explanation is faulty. The response addresses some elements of the task correctly but reflects a lack of essential understanding of how to divide with a remainder.



Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. Although a correct procedure is followed to calculate the number of band members in each row, the explanation to the second question is not provided. The response addresses some elements of the task correctly but required work is limited.

GUIDE PAPER 9				
50	A band has 36 members. They are arranged into 6 equal rows. How many band members are in each row?			
	Show your work.			
	5676=6			
	Can the same 36 band members be placed into exactly 7 equal rows? Why or why not?			
	Explain your answer. No it can not becar EXE=BE			
	and 2/4 = 6= 6.			

Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. Although a correct procedure is followed to calculate the number of band members in each row, the explanation is limited to repeating the previous work. The response addresses only some elements of the task correctly but the required work is limited.

Chow wour w	ark
Show your w	Urk.
	36
	- 6
	7.0
	30
Can the same	26 hand members he placed into everthy 7 equal sour 2 Why
why not?	36 band members be placed into exactly 7 equal rows? Why
Explain your a	ancular
yes, 1	they can beclase 36+7=43
	that has the u dait.
and	

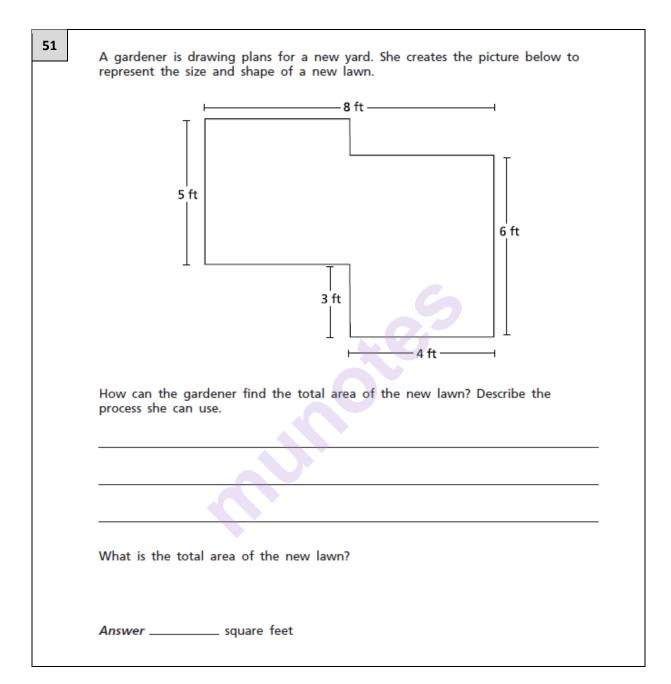
Score Point 0 (out of 3 points)

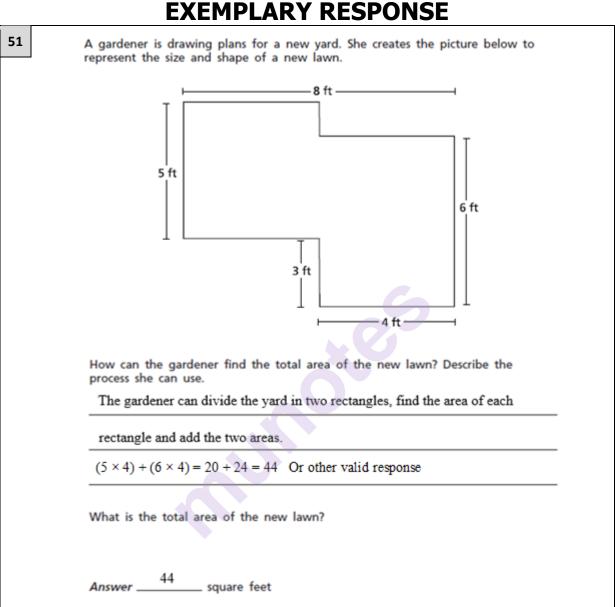
This response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. The work is incorrect and reflects no understanding.

	GUIDE PAPER 11	Additional
0	A band has 36 members. They are arranged into 6 equal rows. band members are in each row?	How many
	show your work. $6 \div 36 = 9$	
	q nombers in each	Pow,
		,
	Can the same 36 band members be placed into exactly 7 equal	rows? Why or
	why not?	
	Explain your answer. No becaus there be no one to fill the	Would
	be no one to fill the	7 row.

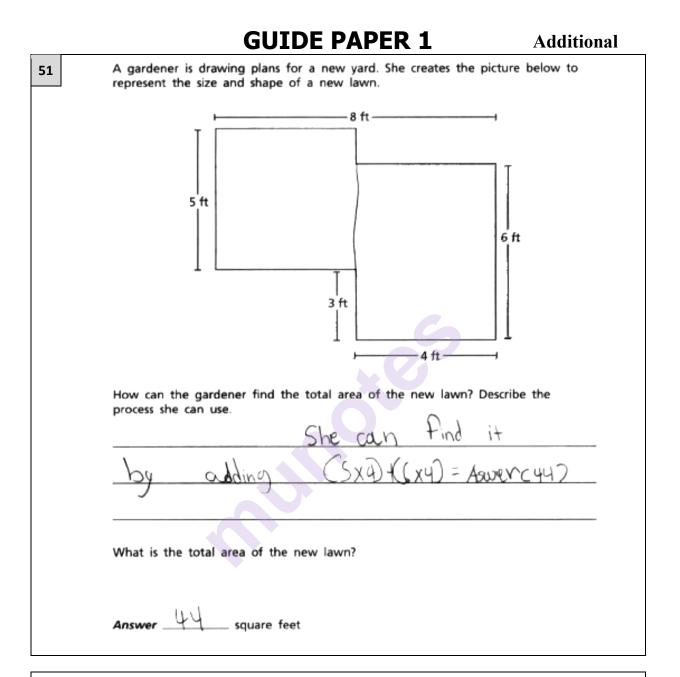
Score Point 0 (out of 3 points)

Although a division operation is applied to determine the solution, the division is written in reverse order, and is incorrect. Holistically, the work is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task.



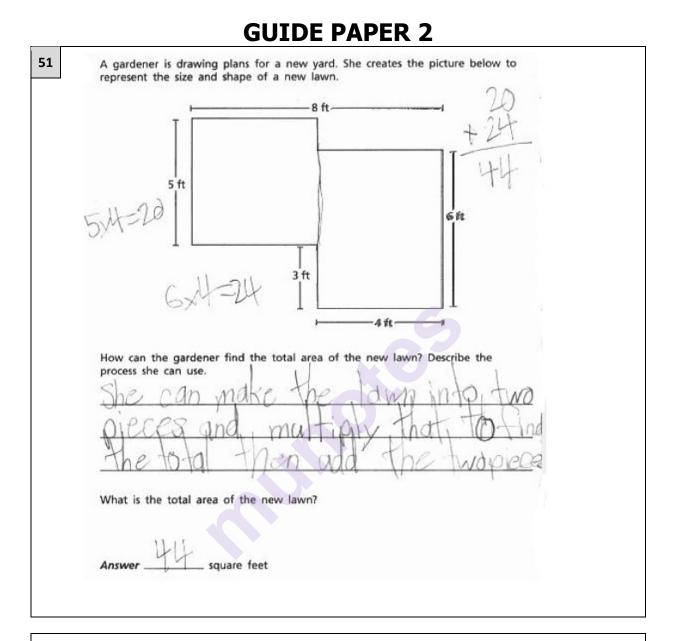


EXEMPLARY RESPONSE



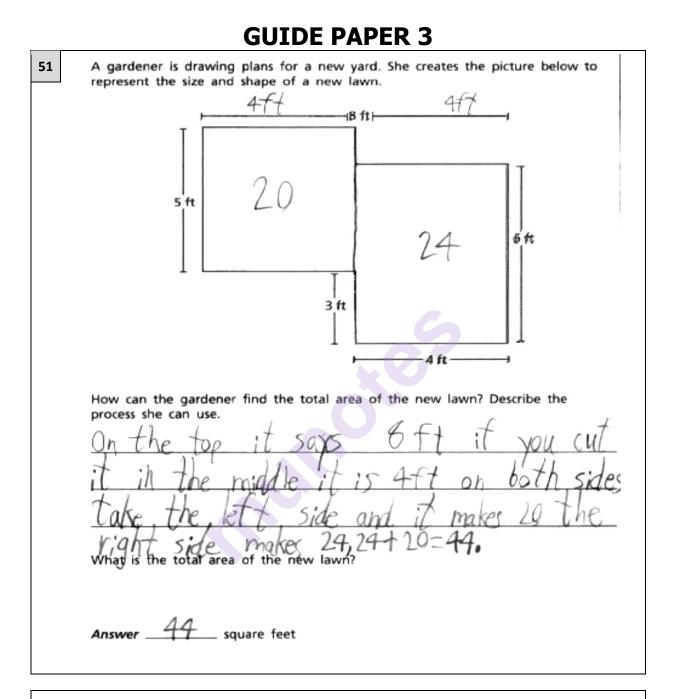
Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The area of each part of the yard is correctly calculated and then two areas are added to determine the total area of the new lawn. The explanation of the process is complete and correct.



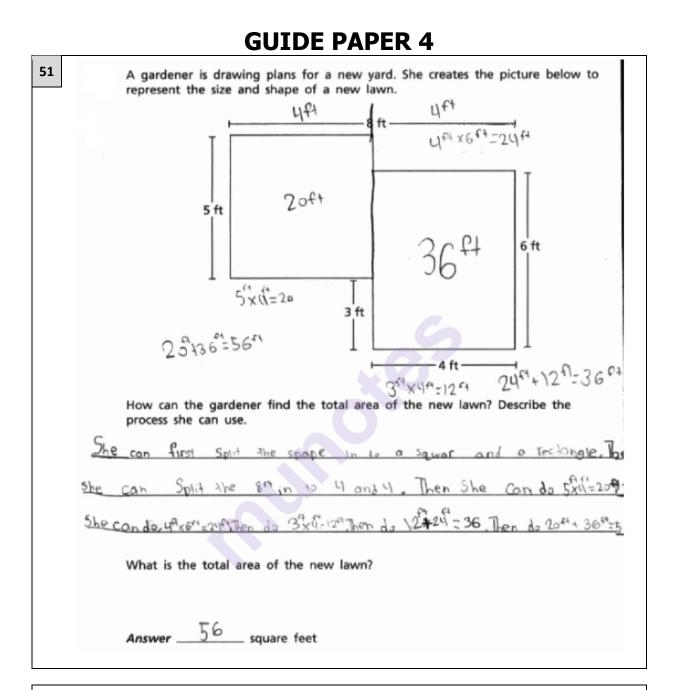
Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct process of dividing the yard in two parts and calculating the area of each and then adding the two areas is described and all calculations are correct.



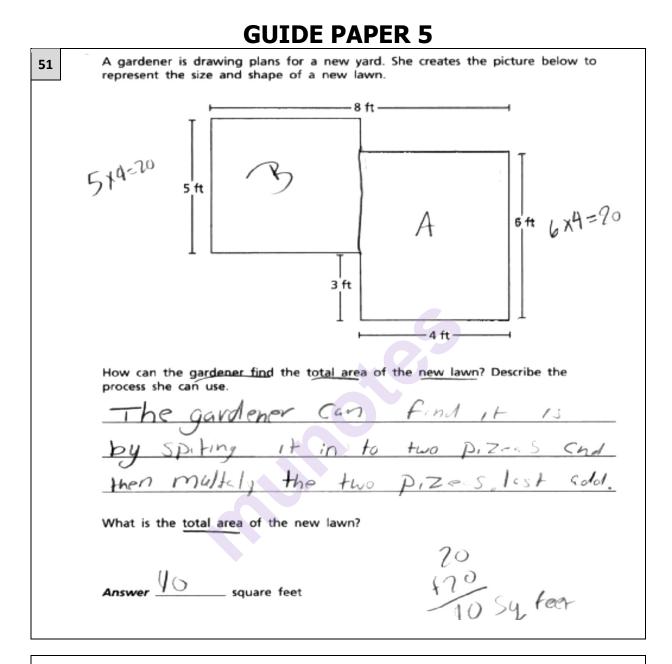
Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The explanation of the process and all calculations are correct.



Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The yard is split in two parts and the area of one part is correctly calculated. The 3×4 area is inappropriately added twice when determining the area of the second part of the yard. The calculated areas are correctly added to determine the solution. The response appropriately addresses most but not all aspects of the task.



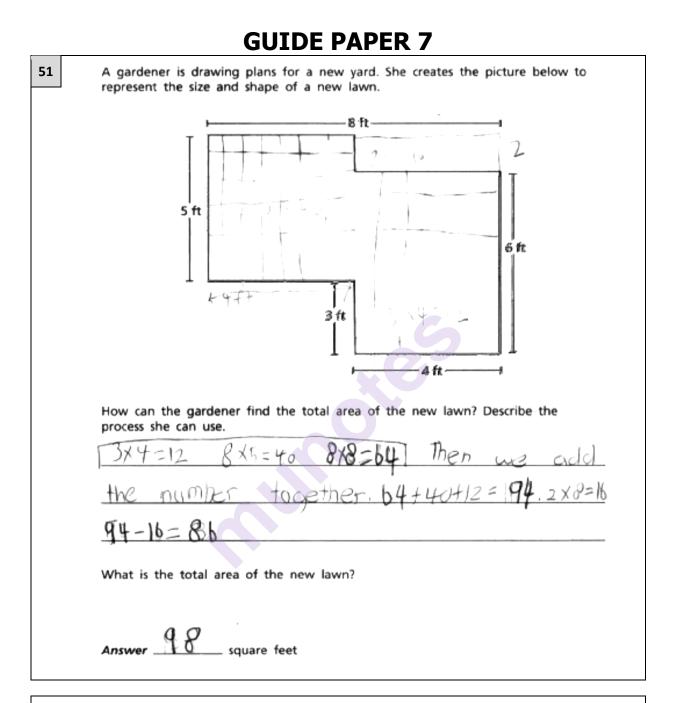
Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The yard is split in two parts and area B is calculated correctly; however, a calculation error when determining area A results in an incorrect answer for area A and final solution. The response reflects some minor misunderstanding of the underlying mathematical concepts and procedures.

	GUIDE PAPER 6
51	A gardener is drawing plans for a new yard. She creates the picture below to represent the size and shape of a new lawn.
	$ \begin{array}{c} $
	How can the gardener find the total area of the new lawn? Describe the process she can use.
	he can <u>spiss his auren</u> <u>up and findit</u> . What is the total area of the new lawn?
	Answer 48 square feet

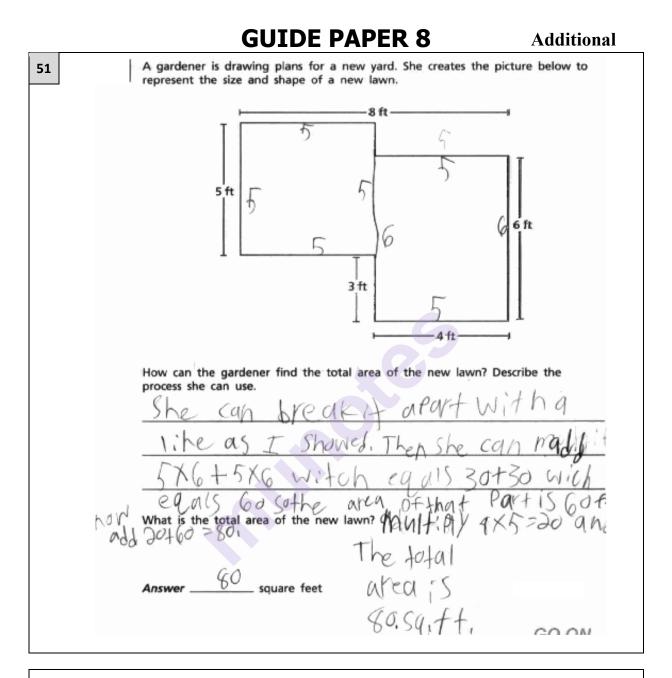
Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The yard is divided in three parts, and areas of two parts are calculated correctly. The height of the middle rectangle is incorrectly determined as 4 rather than 3, resulting in an incorrect area and final solution. The response contains an incorrect solution but provides sound procedure and reflects some minor misunderstanding.



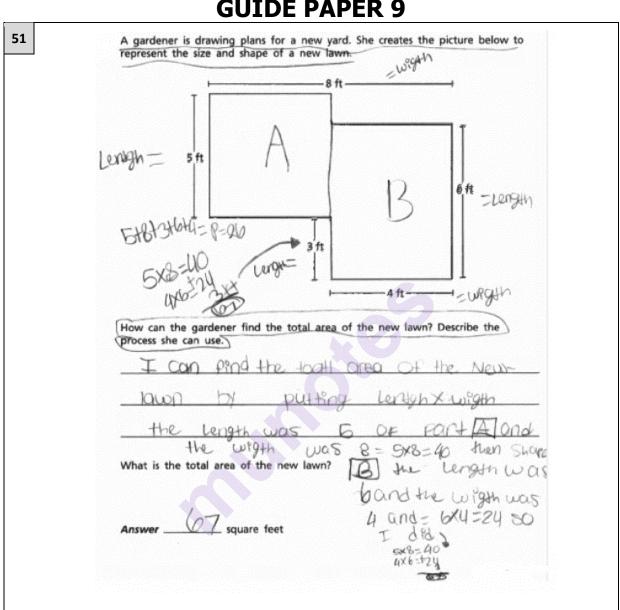
Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. The area of four different rectangles is correctly calculated; however, additional work of adding and subtracting the areas exhibits multiple flaws and reflects a lack of essential understanding. The response addresses only some elements of the task correctly.



Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. Although a process of dividing the yard in smaller parts, calculating the area of each and adding areas is described, the work exhibits multiple flaws when determining dimensions and area of rectangles and reflects a lack of essential understanding. The response addresses only some elements of the task correctly.



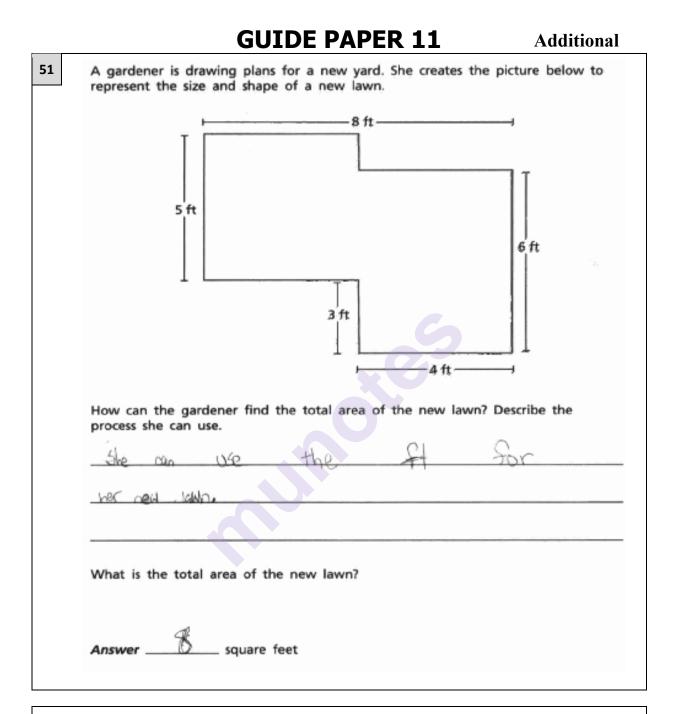
Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. Area B is calculated correctly; however, the width of rectangle A is determined incorrectly resulting in an incorrect solution for area A. Additionally, the value 3 is incorrectly added to areas A and B when calculating the total area. The response addresses only some elements of the task correctly and reflects a lack of essential understanding.

	GUIDE PAPER 10
51	A gardener is drawing plans for a new yard. She creates the picture below to represent the size and shape of a new lawn.
	$\begin{bmatrix} & & & & & & & \\ & & & & & & \\ & & & & $
	How can the gardener find the total area of the new lawn? Describe the process she can use. 72, because if you multiply $24 \times 3 = 72$ What is the total area of the new lawn?
	Answer 72 square feet

Score Point 0 (out of 3 points)

Although the work contains correct calculations of 6×4 area, the response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. The explanation is faulty and suggests no understanding.



Score Point 0 (out of 3 points)

This response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. The explanation is faulty and suggests no understanding.

52	Ms. Amani and Mr. Blake each ordered supplies for their classrooms. The cost of the supplies is shown below.			
		CLASSROOM	A SUPPLIES	
		Supply	Cost]
		Pencil Case	\$3	
		Box of Crayons	\$4	
		Pack of Folders	\$2	
	Ms. Amani ordered 7 penci What is the difference in th Mr. Blake ordered?	I cases and 9 packs of ne cost of the supplies	folders. Mr. Blake o Ms. Amani ordered	rdered 9 boxes of crayons. and the cost of the supplies
	Show your work.			

52	Ms. Amani and Mr. Blake each ordered supplies for their classrooms. The cost of the supplies is shown below.				
CLASSROOM SUPPLIES					
		Supply	Cost		
		Pencil Case	\$3		
		Box of Crayons	\$4		
		Pack of Folders	\$2		
Ms. Amani ordered 7 pencil cases and 9 packs of folders. Mr. Blake ordered 9 boxes of crayons. What is the difference in the cost of the supplies Ms. Amani ordered and the cost of the supplies Mr. Blake ordered?					
	Show your work.				
Ms. Amani's cost of supplies = cost of pencils + cost of folders cost of supplies = $(7 \times 3) + (9 \times 2) = 21 + 18 = 39$					
	Mr. Blake		plies = cost of cra plies = $9 \times 4 = 36$	-	
	Difference	the in cost = $39 - 3$	6 = 3		
	Or other	valid process			
	Difference in cost \$	3			
1					

EXEMPLARY RESPONSE

	GUIDE PAPER 1 Additional					
52	Ms. Amani and Mr. Blake each ordered supplies for their classrooms. The cost of the supplies is shown below.					
	CLASSROOM SUPPLIES					
	Supply Cost					
		Pencil Case	\$3			
		Box of Crayons	\$4			
		Pack of Folders	\$2			
	Ms. Amani ordered 7 pencil cases and 9 packs of folders. Mr. Blake ordered 9 boxes of crayons. What is the difference in the cost of the supplies Ms. Amani ordered and the cost of the supplies Mr. Blake ordered?					
	show your work. MT blake's cost					
	show your work. FHXQ = 36 MIS AMANIS cost					
	$3 \times 7 = 21$ $3 \times 7 = 18$ 21+18=39					
	Difference in cost \$ 3 -36 -36 3					

Score Point 3 (out of 3 points)

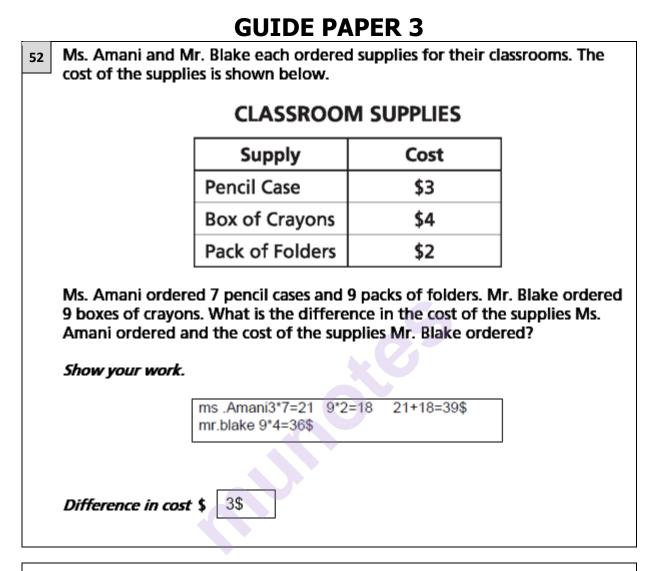
This response demonstrates a thorough understanding of the mathematical concepts in the task. The cost of each room's supplies and the difference in cost are correctly calculated using mathematically sound procedures.

	CLASSROOM	SUPPLIES	
	Supply	Cost	
	Pencil Case	\$3	-
	Box of Crayons	\$4	
	Pack of Folders	\$2	
	dered 7 pencil cases and 9 p ayons. What is the difference		f the supplies Ms
Amani ordere	yons. What is the difference ed and the cost of the supp		f the supplies Ms
Amani ordere <i>Show your w</i>	ayons. What is the difference ed and the cost of the supp fork.		f the supplies Ms
Amani ordere <i>Show your w</i>	yons. What is the difference ed and the cost of the supp	lies Mr. Blake o	f the supplies Ms
Amani ordere <i>Show your w</i>	ayons. What is the difference ad and the cost of the supple ork . 2=18	lies Mr. Blake o	f the supplies Ms ordered?

ITDE DADI

Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The cost of each room's supplies and the difference in cost are correctly calculated using mathematically sound procedures. The incorrect work shown $(9 \times 4 = 3)$ in the initial work for Mr. Blake's classroom cost is considered an inconsequential error that does not detract from the correct solution and the demonstration of a thorough understanding.



Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The cost of each room's supplies and the difference in cost are correctly calculated. The subtraction to calculate the difference in cost is performed mentally and is acceptable.

GUIDE PAPER 4 52 Ms. Amani and Mr. Blake each ordered supplies for their classrooms. The cost of the supplies is shown below. CLASSROOM SUPPLIES Supply Cost Pencil Case \$3 Box of Crayons \$4 Pack of Folders \$2 Ms. Amani ordered 7 pencil cases and 9 packs of folders. Mr. Blake ordered 9 boxes of crayons. What is the difference in the cost of the supplies Ms. Amani ordered and the cost of the supplies Mr. Blake ordered Show your work. Ms Amani 3+3+3+3+3+2+24 72+342=39 Mr Bloke 4+4+4+4+4= 36 Difference in cost \$/M and Mr Bloke pay

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. A correct process of repeated addition is applied to calculate the cost of supplies for each classroom; however, the difference in cost is not addressed. The response addresses most, but not all aspects of the task using mathematically sound procedures.

Ms. Amani and Mr. Blake each ordered supplies for their classrooms. The cost of the supplies is shown below. CLASSROOM SUPPLIES Supply Cost Pencil Case \$3 Box of Crayons \$4 Pack of Folders \$2 Ms. Amani ordered 7 pencil cases and 9 packs of folders. Mr. Blake ordered 9 boxes of crayons. What is the difference in the cost of the supplies Ms. Amani ordered and the cost of the supplies Mr. Blake ordered? Show your work. MS λIN Difference is that Ms. AMANI or aerod things then Ms. blake and the cost. The More

Difference in cost \$3436

52

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. Although the cost of each room's supplies is correctly determined, the difference in cost is not calculated. The response addresses most, but not all aspects of the task.

GUIDE PAPER 6 Ms. Amani and Mr. Blake each ordered supplies for their classrooms. The 52 cost of the supplies is shown below. CLASSROOM SUPPLIES Supply Cost Pencil Case \$3 Box of Crayons \$4 Pack of Folders \$2 Ms. Amani ordered 7 pencil cases and 9 packs of folders. Mr. Blake ordered 9 boxes of crayons. What is the difference in the cost of the supplies Ms. Amani ordered and the cost of the supplies Mr. Blake ordered? Show your work. 6x3=18 9x4=\$36 9x2=18 \$36 Difference in cost \$ 0

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. Mr. Blake's classroom cost is correctly determined; however, an incorrect number of pencil cases is used to determine the cost of pencils, resulting in incorrect total cost for Ms. Amani's classroom. The difference in costs is then calculated correctly. The response contains an incorrect solution but provides sound procedures.

52 Ms. Amani and Mr. Blake each ordered supplies for their classrooms. The cost of the supplies is shown below. CLASSROOM SUPPLIES Supply Cost Pencil Case \$3 Box of Crayons \$4 Pack of Folders \$2 Ms. Amani ordered 7 pencil cases and 9 packs of folders. Mr. Blake ordered 9 boxes of crayons. What is the difference in the cost of the supplies Ms. Amani ordered and the cost of the supplies Mr. Blake ordered? Show your work. Difference in cost

Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. Although the cost of supplies Ms. Amani ordered is correctly calculated and supported with work, the cost of Mr. Blake's supplies and the difference in cost is not determined. The response addresses some elements of the task correctly but required work is limited.

		GUIDE PA	PER 8	Additional	
52	Ms. Amani and Mr. Blake each ordered supplies for their classrooms. The cost of the supplies is shown below.				
	CLASSROOM SUPPLIES				
		Supply	Cost		
		Pencil Case	\$3		
		Box of Crayons	\$4		
		Pack of Folders	\$2		
	9 boxes of crayon	ed 7 pencil cases and 9 s. What is the different ad the cost of the sup	nce in the cost of t	he supplies Ms.	
	Show your work.				
		7X3=21 9X2=	18 21-18=3		
	Difference in cost \$ 3				

Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. Only the costs of supplies Ms. Amani ordered is calculated and the difference in cost of these supplies is determined. The response addresses some elements of the task correctly but reflects a lack of essential understanding.

52	Ms. Amani and Mr. Blake each ordered sup the supplies is shown below.	oplies for their class	rooms. The cost of		
	CLASSROOM	SUPPLIES			
	Supply	Cost			
	Pencil Case	\$3			
	Box of Crayons	\$4			
	Pack of Folders	\$2			
	Ms. Amani ordered 7 pencil cases and 9 packs of folders. Mr. Blake ordered 9 boxes of crayons. What is the difference in the cost of the supplies Ms. Amani ordered and the cost of the supplies Mr. Blake ordered? Show your work.				
	Difference in cost $s \frac{35}{35}$	B6-B			

Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. Although the difference in cost is calculated correctly, no initial work is shown for how 36 and 39 are obtained. The response contains a correct solution but required work is limited.

52

Ms. Amani and Mr. Blake each ordered supplies for their classrooms. The cost of the supplies is shown below.

Supply	Cost
Pencil Case	\$3
Box of Crayons	\$4
Pack of Folders	\$2

CLASSROOM SUPPLIES

Ms. Amani ordered 7 pencil cases and 9 packs of folders. Mr. Blake ordered 9 boxes of crayons. What is the difference in the cost of the supplies Ms. Amani ordered and the cost of the supplies Mr. Blake ordered?

Show your wor Difference in cost \$

Score Point 0 (out of 3 points)

Although the cost of folders is correctly calculated, additional work to calculate cost of supplies suggests no understanding; cases are multiplied by packs and dollars are multiplied by dollars. Holistically, this response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task.

		GUIDE PA	PER 11	Additional		
52	Ms. Amani and Mr. Blake each ordered supplies for their classrooms. The cost of the supplies is shown below.					
	CLASSROOM SUPPLIES					
	Supply Cost					
	Pencil Case \$3					
		Box of Crayons	\$4			
		Pack of Folders	\$2			
	Ms. Amani ordered 7 pencil cases and 9 packs of folders. Mr. Blake ordered 9 boxes of crayons. What is the difference in the cost of the supplies Ms. Amani ordered and the cost of the supplies Mr. Blake ordered?					
	Show your work.					
	Show your work. 3+3+3+3+3+3=18 Difference in cost \$ 18					

Score Point 0 (out of 3 points)

Although an attempt is made to determine the cost of pencil cases, the repeated addition is performed incorrectly, and no other work is provided. The response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task.