7MA SLM-T



2016 Common Core

Mathematics Test



Scoring Leader Materials

Training Set

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Grade 7 Mathematics Reference Sheet

CONVERSIONS

1 inch = 2.54 centimeters	1 kilometer = 0.62 mile	1 cup = 8 fluid ounces
1 meter = 39.37 inches	1 pound = 16 ounces	1 pint = 2 cups
1 mile = 5,280 feet	1 pound = 0.454 kilogram	1 quart = 2 pints
1 mile = 1,760 yards	1 kilogram = 2.2 pounds	1 gallon = 4 quarts
1 mile = 1.609 kilometers	1 ton = 2,000 pounds	1 gallon = 3.785 liters
		1 liter = 0.264 gallon
		1 liter = 1,000 cubic centimeters

FORMULAS	
Triangle	$A = \frac{1}{2}bh$
Parallelogram	A = bh
Circle	$A = \pi r^2$
Circle	$C = \pi d \text{ or } C = 2\pi r$
General Prisms	V = Bh

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 is 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 Points:	
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.
	 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 and a for example, and any set of the understanding mathematical compared on the task.
	 reflects a fack 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).

2016 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 does the work in other than a designated "Show your work" area, that work should still be scored. (Additional paper is an allowable accommodation for a student with disabilities if indicated on the student's Individual Education Program or Section 504 Accommodation Plan.)
- 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.
- 3. In questions that provide ruled lines for students to write an explanation of their work, mathematical work shown elsewhere on the page should be considered and scored.
- If the student provides one legible response (and one response only), teachers should score the response, even if it has been crossed out.
- 5. If the student has written more than one response but has crossed some out, teachers should score only the response that has **not** been crossed out.
- 6. Trial-and-error responses are **not** subject to Scoring Policy #5 above, since crossing out is part of the trial-and-error process.
- 7. If a response shows repeated occurrences of the same conceptual error within a question, the student should **not** be penalized more than once.
- 8. In questions that require students to provide bar graphs,
 - in Grades 3 and 4 only, touching bars are acceptable
 - in Grades 3 and 4 only, space between bars does not need to be uniform
 - in all grades, widths of the bars must be consistent
 - in all grades, bars must be aligned with their labels
 - in all grades, scales must begin at 0, but the 0 does not need to be written
- 9. In questions requiring number sentences, the number sentences must be written horizontally.
- 10. In pictographs, the student is permitted to use a symbol other than the one in the key, provided that the symbol is used consistently in the pictograph; the student does not need to change the symbol in the key. The student may **not**, however, use multiple symbols within the chart, nor may the student change the value of the symbol in the key.
- 11. 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.
- 12. 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.

52 An after-school program offers tutoring for different subjects. During the last month, a teacher recorded the number of students who participated in tutoring in each subject, as shown in the table below.

Subject	Number of Students
Math	40
Science	55
English	47
History	58

TUTORING PARTICIPATION

Explain how the teacher could use these data to predict about how many of the next 100 students will participate in math tutoring.

EXEMPLARY RESPONSE

52 An after-school program offers tutoring for different subjects. During the last month, a teacher recorded the number of students who participated in tutoring in each subject, as shown in the table below.

Subject	Number of Students
Math	40
Science	55
English	47
History	58

TUTORING PARTICIPATION

Explain how the teacher could use these data to predict about how many of the next 100 students will participate in math tutoring.

The number of students particupating in tutoring was 40 + 55 + 47 + 58 = 200 students, and

40 out of the 200 students participated in math tutoring which is $40 \div 200 = 0.2 = 20\%$.

The next group will probably also have about 20% of students participating in math tutoring.

OR other valid explanation

An after-school program offers tutoring for different subjects. During the last month, a teacher recorded the number of students who participated in tutoring in each subject, as shown in the table below.

TUTORING PARTICIPATION

52

Subject	Number of Students
Math	40
Science	55
English	47
History	58

Explain how the teacher could use these data to predict about how many of the next 100 students will participate in math tutoring.

The since the data shows that to out of 200 Students took math tutoring, the teacher can set up a proportional relationship 40 × x 200 = 100, and cross multiply. This gives her a resonable prediction that 20 sty dents will participate in math tutoring. To do it in a more simplier way, the teacher Can recognize that she is trying to find how many stydents out of 100 would take moth tutoring. Since this is ½ of the amount of data the table shows (200 stydents), Shecan find it of HO stydents who took math, which is 20.

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response correctly states that the number of students participating in math tutoring will decrease proportionally. The work provides two correct procedures to predict the number of students participating in math tutoring.

An after-school program offers tutoring for different subjects. During the last month, a teacher recorded the number of students who participated in tutoring in each subject, as shown in the table below.

TUTORING PARTICIPATION

52

Subject	Number of Students
Math	40
Science	55
English	47
History	58

Explain how the teacher could use these data to predict about how many of the next 100 students will participate in math tutoring.

t that a Dout participate in math tutoring STINDONT WILL studionts, MITICI With 100 should Darticipate dents.

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The work shows complete understanding that the number of students participating in math tutoring will decrease proportionally.

An after-school program offers tutoring for different subjects. During the last month, a teacher recorded the number of students who participated in tutoring in each subject, as shown in the table below.

TUTORING PARTICIPATION

52

Subject	Number of Students
Math	40
Science	55
English	47
History	58

Explain how the teacher could use these data to predict about how many of the next 100 students will participate in math tutoring.



Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The work shows complete understanding that the number of students participating in math tutoring will decrease proportionally.

52

An after-school program offers tutoring for different subjects. During the last month, a teacher recorded the number of students who participated in tutoring in each subject, as shown in the table below.

TUTORING PARTICIPATION

Subject	Number of Students
Math	40 822-
Science	55
English	47
History	58

Explain how the teacher could use these data to predict about how many of the next 100 students will participate in math tutoring.



Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. Although the prediction for the number of students participating in math tutoring is correct, the explanation is missing.

An after-school program offers tutoring for different subjects. During the last month, a teacher recorded the number of students who participated in tutoring in each subject, as shown in the table below.

TUTORING PARTICIPATION

52

Subject	Number of Students
Math	40
Science	55
English	47
History	58

Explain how the teacher could use these data to predict about how many of the next 100 students will participate in math tutoring

The teacher could take the percent of the Nath students and find at how mony aut of 100 will be participating in + math tutoring

Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The work shows understanding that the number of students participating in math tutoring will change proportionally; however the explanation is incomplete.

GUIDE PAPER 6 52 An after-school program offers tutoring for different subjects. During the last month, a teacher recorded the number of students who participated in tutoring in each subject, as shown in the table below. TUTORING PARTICIPATION Number of Students Subject -5 20 Math 40 Science 55 200 English 47 58 History Explain how the teacher could use these data to predict about how many of the next 100 students will participate in math tutoring. she could divide the amount of students by 40 students. because its 700

Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. Although a correct share of students participating in math tutoring is calculated, the response does not explain why the number of students has to be divided by 2. The response addresses only some elements of the task correctly.

An after-school program offers tutoring for different subjects. During the last month, a teacher recorded the number of students who participated in tutoring in each subject, as shown in the table below.

TUTORING PARTICIPATION

52

Subject	Number of Students	
Math	40	40
Science	55	+0
English	47	+5
History	58	2

00

Explain how the teacher could use these data to predict about how many of the next 100 students will participate in math tutoring.

200 m less because Vear and there going last new and be participation. old

Score Point 0 (out of 2 points)

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

52 An after-school program offers tutoring for different subjects. During the last month, a teacher recorded the number of students who participated in tutoring in each subject, as shown in the table below.

TUTORING PARTICIPATION

Subject	Number of Students	
Math	40	
Science	55	
English	47	
History	58	

Explain how the teacher could use these data to predict about how many of the next 100 students will participate in math tutoring.



Score Point 0 (out of 2 points)

This response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in task. The response provides an incorrect procedure to estimate future participation in math tutoring.

53	A home-improvement store sold wind chimes for \$30. A customer signed up for a free membership card and received a 5% discount off the price. Sales tax of 5% was applied after the discount. What was the final price of the wind chime?
	Show your work.
	Answer S

EXEMPLARY RESPONSE

53	A home-improvement store sold wind chimes for \$30. A customer signed membership card and received a 5% discount off the price. Sales tax of 5° after the discount. What was the final price of the wind chime?	up for a free % was applied
	Show your work.	
	$.05 \times 30 = 1.5$	
	30 - 1.5 = 28.5	
	28.5 x 0.05 = 1.425	
	28.5 + 1.425 = 29.925	
	Or other valid process	
	29.93 Answer 5	

53 A home-improvement store sold wind chimes for \$30. A customer signed up for a free membership card and received a 5% discount off the price. Sales tax of 5% was applied after the discount. What was the final price of the wind chime? Show your work. 30 28.5 ×1, 0S 29.925 Answer \$ 29.93

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct procedure is provided to determine the price after a 5% discount then the sales tax is applied correctly to determine the solution.

GUIDE PAPER 2 A home-improvement store sold wind chimes for \$30. A customer signed up for a free 53 membership card and received a 5% discount off the price. Sales tax of 5% was applied after the discount. What was the final price of the wind chime? Show your work. 30×.05=1.50 28.50 28.50x,05=1,43 28.50 79.93 Answer \$

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct procedure is provided to determine the price after a 5% discount then the sales tax is applied correctly to determine the solution.

GUIDE	PAPER 3

53 A home-improvement store sold wind chimes for \$30. A customer signed up for a free membership card and received a 5% discount off the price. Sales tax of 5% was applied after the discount. What was the final price of the wind chime? Show your work. 29.93 Answer \$

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct procedure is provided to determine the price after a 5% discount then the sales tax is applied correctly to determine the solution.



Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. A correct procedure is used to determine the price after a 5% discount. The sales tax is applied correctly; however, a rounding error is made, resulting in an incorrect final answer for the price of wind chimes.

A home-improvement store sold wind chimes for \$30. A customer signed up for a free 53 membership card and received a 5% discount off the price. Sales tax of 5% was applied after the discount. What was the final price of the wind chime? Show your work. × .05 28.50 x .05 29.96 Answer \$

Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. A correct procedure is used to determine the price after a 5% discount. An error is made when calculating the sales tax, resulting in an incorrect price for wind chimes.

A home-improvement store sold wind chimes for \$30. A customer signed up for a free 53 membership card and received a 5% discount off the price. Sales tax of 5% was applied after the discount. What was the final price of the wind chime? Show your work. Answer \$

Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response incorrectly multiplies by 0.5 rather than 0.05 when determining the discount and the sales tax, resulting in an incorrect solution. The response addresses some elements of the task correctly.

GUIDE PAPER /			
53	A home-improvement store sold wind chimes for \$30. A customer signed up for a free membership card and received a 5% discount off the price. Sales tax of 5% was applied after the discount. What was the final price of the wind chime?		
	Show your work. $30 \times 7 = 50.59$ 30.00 14 7 7 7 7 7 7 7 7		
	Answer 5_200		

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 has an incorrect discount when calculating the discounted price. An incorrect procedure is used for applying the sales tax.

GUIDE PAPER 8 Additional A home-improvement store sold wind chimes for \$30. A customer signed up for a free 53 membership card and received a 5% discount off the price. Sales tax of 5% was applied after the discount. What was the final price of the wind chime? Show your work. 30 5% Answer \$

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 work is incomplete. The response does not include sufficient work to show even a limited understanding of the concepts in the task.

54	will cost \$7, and admission solve an equation that car bring to the zoo, including Show your work.	a tickets will cost \$15.50 per person, including tax. Write and to be used to determine the number of people that she can g herself.
	Answer	people

EXEMPLARY RESPONSE

54	54 Ms. Hernandez has \$100 to spend on parking and admission to the zoo. The parking will cost \$7, and admission tickets will cost \$15.50 per person, including tax. Write and solve an equation that can be used to determine the number of people that she can bring to the zoo, including herself.			
	Show your work.			
	15.5 <i>p</i> +7 = 100			
	<i>p</i> = (100 - 7)/15.5			
	<i>p</i> = 6			
	Or other valid response			
	Answer6 people			



Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct equation is provided and correctly solved to determine the solution.

Ms. Hernandez has \$100 to spend on parking and admission to the zoo. The parking 54 will cost \$7, and admission tickets will cost \$15.50 per person, including tax. Write and solve an equation that can be used to determine the number of people that she can bring to the zoo, including herself. Show your work. \$100. spend 7,854 Noo 14550x-

GUIDE PAPER 2

Answer _____ (O____ people

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct equation is provided and correctly solved to determine the solution.

54	Ms. Hernandez has \$100 to spend on parking and admission to the zoo. The parking will cost \$7, and admission tickets will cost \$15.50 per person, including tax. Write and solve an equation that can be used to determine the number of people that she can bring to the zoo, including herself.
	Show your work.
	7+15.50p £100
	43
	15593 16
	Answer people

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct inequality is provided and correctly solved to determine the solution.

⁵⁴ Ms. Hernandez has \$100 to spend on parking and admission to the zoo. The parking will cost \$7, and admission tickets will cost \$15.50 per person, including tax. Write and solve an equation that can be used to determine the number of people that she can bring to the zoo, including herself. Show your work. f + 15.50 p + 100 + 1

Score Point 1 (out of 2 points)

people

(0

Answer

This response demonstrates a partial understanding of the mathematical concepts in the task. A correct equation is provided to determine the number of people that can come to the zoo. Although the answer is correct, an error occurs when determining the solution.

GUIDE PAPER 5 54 Ms. Hernandez has \$100 to spend on parking and admission to the zoo. The parking will cost \$7, and admission tickets will cost \$15.50 per person, including tax. Write and solve an equation that can be used to determine the number of people that she can bring to the zoo, including herself. Show your work. ю -7 15.50 × 6 93 15 ŝ Answer people

Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response provides a correct but incomplete work: the equation is not provided.

GUIDE PAPER 6			
54	Ms. Hernandez has \$100 to spend on parking and admission to the zoo. The parking will cost \$7, and admission tickets will cost \$15.50 per person, including tax. Write and solve an equation that can be used to determine the number of people that she can bring to the zoo, including herself.		
	Show your work.		
	(155+607.55)) (n) +7=100(15.5+124) (n) +7=10016.74(n) +7=1006.74n +7=10077 -716.74=9316.74=16.74n=5		
	Answer 5 people		

Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response provides a partially correct equation: the price per ticket is incorrect, resulting in an incorrect solution. The response addresses some elements of the task correctly.

54	Ms. Hernandez has \$100 to spend on parking and admission to the zoo. The parking will cost \$7, and admission tickets will cost \$15.50 per person, including tax. Write and solve an equation that can be used to determine the number of people that she can bring to the zoo, including herself.		
	Show your work.		
	100-(7+15.50=X		
	100-2250=X		
	77.50		
	Answer people		

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 provides an incorrect equation to determine the number of people that can come to the zoo.

	GUIDE PAPER 8	Additional	
54	Ms. Hemandez has \$100 to spend on parking and admission to the zoo. The parking will cost \$7, and admission tickets will cost \$15.50 per person, including tax. Write and solve an equation that can be used to determine the number of people that she can bring to the zoo, including herself.		
	Show your work. 645 15.50 100		
	Answer5_ people		

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 follows an incorrect procedure to determine the answer.
55
 Two math classes took the same quiz. The scores of 10 randomly selected students from each class are listed below.

 • Sample of Class A: 75, 80, 60, 90, 85, 80, 70, 90, 70, 65

 • Sample of Class B: 95, 90, 85, 90, 100, 75, 90, 85, 90, 85

 Based on the medians of the scores for each class, what inference would you make about the quiz scores of all the students in Class A compared to all the students in Class B? Explain your reasoning to justify your answer.

EXEMPLARY RESPONSE

each class	classes took the same quiz. The scores of 10 randomly selected students from are listed below.
	 Sample of Class A: 75, 80, 60, 90, 85, 80, 70, 90, 70, 65 Sample of Class B: 95, 90, 85, 90, 100, 75, 90, 85, 90, 85
Based on t about the Class B? Ex	the medians of the scores for each class, what inference would you make quiz scores of all the students in Class A compared to all the students in xplain your reasoning to justify your answer.
Since the	median of 77.5 for the sample of Class A is less than the median of 90 for the
sample o	f Class B, you can infer that Class B was better prepared for the quiz than
Class A.	
OR other	r valid explanation

55 Two math classes took the same quiz. The scores of 10 randomly selected students from each class are listed below. Class A: 75, 80, 60, 90, 85, 80, 70, 90, 70, 65. Class B: 95, 90, 85, 90, 100, 75, 90, 85, 90, 85 Based on the medians of the scores for each class, what inference would you make about the guiz scores of all the students in Class A compared to all the students in Class Looking at the medians for the classes and comparing them, Class B did a better job. CA = 20, (15.70, 26(75, 80, 86, 85, 90, 90 B. Explain your reasoning to justify your answer. CB= 78, 58, 38, 36, 90, 90, 96, 96, 96, 100

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response follows a correct procedure to determine the medians for Classes A and B and provides a correct inference that Class B is better prepared than Class A.

Two math classes took the same quiz. The scores of 10 randomly selected students from each class are listed below.
Class A: 75, 80, 60, 90, 85, 80, 70, 90, 70, 65
Class B: 95, 90, 85, 90, 100, 75, 90, 85, 90, 85
Based on the medians of the scores for each class, what inference would you make about the quiz scores of all the students in Class A compared to all the students in Class B. Explain your reasoning to justify your answer.
Class A: had worse quiz scores than class B because the median for class A is 77.5, while (lass B's median is q0.
W bat to 70, 75, 60, 70, 75, 10, 75, 10, 76, 75, 100, 75,

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response follows a correct procedure to determine the medians and provides a correct inference. A value of 90 is missing in the list of numbers for Class B; however this is an inconsequential error that does not detract from the correct solution.

Two math classes took the same quiz. The scores of 10 randomly selected students from each class are listed below.

55

Based on the medians of the scores for each class, what inference would you make about the quiz scores of all the students in Class A compared to all the students in Class B. Explain your reasoning to justify your answer.

The quiz scores on Closs A one Lower then Class B, because H's medican is 77.5 while Bisis90.

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The work follows a correct procedure to determine the medians and provides a correct inference.

55	Two math classes took the same quiz. The scores of 10 randomly selected students from each class are listed below.
	• Class A: 25,-89, 69, 90, 85, 80, 70,-90, 70, 68 • Class B: 95, 90, 85, 90,-100, 75, 90,-85
	Based on the medians of the scores for each class, what inference would you make about the quiz scores of all the students in Class A compared to all the students in Class B. Explain your reasoning to justify your answer.
	All thequiz scores in das A are
	tes than the medica of B.
	~ 60,05.70,75,80,80,80,90,90 77.5 77.5 77.5
	Ton 15, 85,85,90,90,90,95,100 25,85,85,90,90,98,95,909 20

Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The work follows a correct procedure to determine the medians, however an incorrect inference is provided.

Two math classes took the same quiz. The scores of 10 randomly selected students from each class are listed below.

• Class A: 75, 80, 60, 90, 85, 80, 70, 90, 70, 65 • Class B: 95, 90, 85, 90, 100, 75, 90, 85, 90, 85

55

Based on the medians of the scores for each class, what inference would you make about the quiz scores of all the students in Class A compared to all the students in Class B. Explain your reasoning to justify your answer.

lass' B' die a lot \$0,60,90,85,70, 65 \$5,100,75,90

Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. Although a correct inference is provided, the work for determining the medians is incomplete with no medians calculated.

Two math classes took the same quiz. The scores of 10 randomly selected students from each class are listed below.

55

Based on the medians of the scores for each class, what inference would you make about the quiz scores of all the students in Class A compared to all the students in Class 8. Explain your reasoning to justify your answer.

Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. Although a correct inference is provided, the response follows an incorrect procedure when calculating the medians.

55 Two math classes took the same quiz. The scores of 10 randomly selected students from each class are listed below. Class A: 75, 80, 60, 98, 85, 88, 79, 90, 79, 65 * Class B: 95, 90, 86, 90, 100, 75, 90, 86, 90, 85 Based on the medians of the scores for each class, what inference would you make about the guiz scores of all the students in Class A compared to all the students in Class B. Explain your reasoning to justify your answer. Class Based p 25 las Chan B.I tach points than Loth 155 A: \$0.46.70.76.75.30,\$0,35.96,96 180. 8= 180

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. An incorrect procedure to determine the medians is provided: two values are added rather than averaged to determine the median. The response provides an incorrect inference when comparing the results. The response does not show even a limited understanding of the concepts embodied in the task.

55	Two math classes took the same quiz. The scores of 10 randomly selected students from each class are listed below.
	• Class A: 75, 80, 60, 90, 85, 80, 70, 90, 70, 65 • Class B: 95, 90, 85, 90, 100, 75, 90, 85, 90, 85
	Based on the medians of the scores for each class, what inference would you make about the quiz scores of all the students in Class A compared to all the students in Class B. Explain your reasoning to justify your answer.
	Closes B seared much better than close A
	attouce the lowest scare for class lie is
	75 while closs & score is 40.

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 provides an incorrect inference and the medians are not calculated.

56	A contractor is building the base of a circular fountain. On the blueprint, the base of the fountain has a diameter of 18 centimeters. The blueprint has a scale of three centimeters to four feet. What will be the actual area of the base of the fountain, in square feet, after it is built? Round your answer to the nearest tenth of a square foot. Show your work.	
	Answer square feet	

EXEMPLARY RESPONSE





Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct proportion is provided to determine the actual radius of the fountain. A correct procedure is used to determine the area of the fountain. The final answer is correctly rounded to the nearest tenth of a square foot.



Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct proportion is provided to determine the actual diameter of the fountain. A correct procedure is used to determine the area of the fountain. The final answer is correctly rounded to the nearest tenth of a square foot.

A contractor is building the base of a circular fountain. On the blueprint, the base of the fountain has a diameter of 18 centimeters. The blueprint has a scale of three centimeters to four feet. What will be the actual area of the base of the fountain, in square feet, after it is built? Round your answer to the nearest tenth of a square foot.



56

Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response provides correct work to determine the actual radius of the fountain. A correct procedure is used to determine the area of the fountain. The final answer is correctly rounded to the nearest tenth of a square foot.



Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The work for determining the actual radius of the fountain is correct. An error is made when calculating the area of the fountain, resulting in incorrect final answer. The response uses 3.14 for the value of π : rounding is performed too early.

56 A contractor is building the base of a circular fountain. On the blueprint, the base of the fountain has a diameter of 18 centimeters. The blueprint has a scale of three centimeters to four feet. What will be the actual area of the base of the fountain, in square feet, after it is built? Round your answer to the nearest tenth of a square foot. Show your work. A=TC9= A=TC9= A=TC81 A=754.4690049 A= 254.5 254.5 square feet Answer

Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The work to determine the actual radius of the fountain is missing. Although a correct procedure is used to determine the area of the fountain, the response determines the area to scale in cm^2 and not in ft^2 (9 is used for the radius). The final answer is correctly rounded to the nearest tenths digit.



Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response correctly determines the actual diameter of the fountain, however the work is incomplete: the area of the fountain is not calculated. The response addresses some elements of the task correctly.

A contractor is building the base of a circular fountain. On the blueprint, the base of the fountain has a diameter of 18 centimeters. The blueprint has a scale of three centimeters to four feet. What will be the actual area of the base of the fountain, in square feet, after it is built? Round your answer to the nearest tenth of a square foot.

Show your work.

56



Answer 1017.36

square feet

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 follows an incorrect procedure to determine the area of the fountain. Diameter rather than radius is used in the formula.

A contractor is building the base of a circular fountain. On the blueprint, the base of the fountain has a diameter of 18 centimeters. The blueprint has a scale of three centimeters to four feet. What will be the actual area of the base of the fountain, in square feet, after it is built? Round your answer to the nearest tenth of a square foot,



56

Answer 4069,40 square feet

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 follows an incorrect procedure to determine the area of the fountain. A calculation error is made when determining the actual diameter and diameter rather than radius is used in the formula to determine the area.



EXEMPLARY RESPONSE

Explain the steps needed to determine the value of the expression shown below. Be sure to provide the correct value of the expression in your explanation.

$$-\frac{\frac{1}{2}}{-\frac{2}{5}} + \left(-\frac{1}{4}\right)$$

Answer

57

Step 1	First divide ½ and -2/5 by multiplying by the inverse of -2/5
	$1/2 \div (-2/5) = \frac{1}{2} \times \frac{-5}{2} = \frac{-5}{4}$
Step 2	Next add -1/4 to the result
	-5/4 + (-1/4) = -6/4
Step 3	Then reduce the improper fraction
	-6/4 = -1 ½ or equivalent answer



Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The work correctly describes the order of operations and solves the expression correctly.



Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. All steps are explained correctly and the answer to the expression is correct.



Explain the steps needed to determine the value of the expression shown below. Be sure to provide the correct value of the expression in your explanation.



57



Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. All steps are explained correctly and the answer to the expression is correct.

Explain the steps needed to determine the value of the expression shown below. Be sure to provide the correct value of the expression in your explanation.

$$\frac{\frac{1}{2}}{-\frac{2}{5}} + \left(-\frac{1}{4}\right) = -\frac{1}{5} = \frac{1}{5}$$

Answer

57

Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. Although the answer is correct, the explanation of the steps is incomplete. The response determines a correct intermediate value of $-1\frac{1}{4}$, but does not explain how this answer was obtained. The statement "*add the next part* $(-\frac{1}{4})$ " is unclear.



Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The work has a correct intermediate value of $-\frac{5}{4}$. Although the steps are listed correctly, there is an error in the second term ($\frac{1}{4}$ is missing a negative sign) that results in an incorrect answer.

GUIDE PAPER 6 57 Explain the steps needed to determine the value of the expression shown below. Be sure to provide the correct value of the expression in your explanation. 1 Answer Ŧī VOU Ωđ 0

Score Point 1 (out of 2 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response correctly lists the steps to solve the expression; however the answer to the expression is not calculated.

[

57	Explain the steps needed to determine the value of the expression shown below. Be sure to provide the correct value of the expression in your explanation. $\frac{\frac{1}{2}}{-\frac{2}{5}} + \left(-\frac{1}{4}\right)$
	Answer 1/2 2/5 Plus - 4.

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 work has no solution. The response, as written, is not specific enough about the order of operations. The response rewrites the expression in words and does not provide enough work to show even a limited understanding.



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 work follows an incorrect procedure to solve the expression. There is an incorrect list of the order of operations: addition is done first, followed by division.





EXEMPLARY RESPONSE



Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response correctly explains why Tank A does not have a proportional relationship. A correct explanation for Tank B that has a proportional relationship is provided. A correct unit rate for Tank B is calculated.



Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response correctly explains why Tank A does not have a proportional relationship and Tank B does have a proportional relationship. A correct unit rate for Tank B is calculated.



Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response provides a correct explanation for Tanks A and B and calculates a correct unit rate.

GUIDE PAPER 4 58 The lines graphed below show the amounts of water in two tanks as they were being filled over time. 3 TANK FILLING RATES Amount of Water (gallons) 1,800 1,600 1,400 1,200 1,000 Fank A 800 600 400 Tank B 200 0 0.5 1.5 2 1 Time (minutes) For each tank, explain whether or not there is a proportional relationship between the amount of water, in gallons, and the time, in minutes. If there is a proportional relationship, identify the unit rate. Use specific features of the graph to support your answer. Tank A is not proportional because it does not start minute the at zero. Tank B is proportion. one 4+ 2 minutes the tank tank is at 300 gallons and at 600. Tank B is proportional Tank A is at and isn't

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response provides a correct explanation for Tanks A and B. Although the answer correctly refers to points on the graph for Tank B, the unit rate is not identified.


Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response correctly explains why Tank B has a proportional relationship and the unit rate for Tank B is calculated correctly. The response does not provide any explanation for Tank A.



Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response correctly explains why Tank A does not have a proportional relationship but Tank B has it. However, no unit rate for Tank B identified.



Score Point 1 (out of 3 points)

This response demonstrates a limited understanding of the mathematical concepts in the task. A correct answer for the unit rate of Tank B is calculated. The work correctly identifies Tank B as the one that has a proportional relationship and Tank A as the one that does not; however, no explanation is given to support the answers. The response addresses only some elements of the task correctly.



Score Point 1 (out of 3 points)

This response demonstrates a limited understanding of the mathematical concepts in the task. The response contradictorily mentions Tank A twice, likely the result of a typographical error in the second sentence. The unit rate for Tank B is not identified. The response, as written, shows only a limited understanding of the material.



Score Point 1 (out of 3 points)

This response demonstrates a limited understanding of the mathematical concepts in the task. A correct explanation for Tank B is provided. An explanation for Tank A is incomplete. The unit rate for Tank B is calculated incorrectly.



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. An explanation for Tanks A and B is missing and no unit rate is identified.



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 incorrectly identifies Tank A as the one that has a proportional relationship and Tank B as the one that does not. The unit rate is calculated incorrectly.

_				
	Trent is fishing from a pier.			
	• The tip of his fishing rod is $53\frac{3}{4}$ feet above the surface of the water.			
 The hook on the end of the fishing line is directly below the tip of the fishing rod 12²/₃ feet below the surface of the water. Trent estimates that the distance between the tip of his fishing rod and the hook is less than 65 feet. Is Trent's estimate reasonable? Explain your answer. 				
				Answer
	Trent lets his hook drop another 10 inches. What is the distance, in feet, between th			
	Trent lets his hook drop another 10 inches. What is the distance, in feet, between th tip of the fishing rod and the hook? Do not round your answer.			
	Trent lets his hook drop another 10 inches. What is the distance, in feet, between th tip of the fishing rod and the hook? Do not round your answer. Show your work.			
	Trent lets his hook drop another 10 inches. What is the distance, in feet, between th tip of the fishing rod and the hook? Do not round your answer. Show your work.			
	Trent lets his hook drop another 10 inches. What is the distance, in feet, between th tip of the fishing rod and the hook? Do not round your answer.			
	Trent lets his hook drop another 10 inches. What is the distance, in feet, between th tip of the fishing rod and the hook? Do not round your answer. Show your work.			
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	Trent lets his hook drop another 10 inches. What is the distance, in feet, between th tip of the fishing rod and the hook? Do not round your answer. <i>Show your work.</i>			
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	Trent lets his hook drop another 10 inches. What is the distance, in feet, between th tip of the fishing rod and the hook? Do not round your answer. <i>Show your work.</i>			
	Trent lets his hook drop another 10 inches. What is the distance, in feet, between th tip of the fishing rod and the hook? Do not round your answer. <i>Show your work.</i>			

EXEMPLARY RESPONSE

59	59 Trent is fishing from a pier.		
	• The tip of his fishing rod is $53\frac{3}{4}$ feet above the surface of the water.		
	 The hook on the end of the fishing line is directly below the tip of the 		
	fishing rod $12\frac{2}{3}$ feet below the surface of the water.		
	Trent estimates that the distance between the tip of his fishing rod and the hook is less than 65 feet. Is Trent's estimate reasonable? Explain your answer.		
	Answer		
	It is not a reasonable estimate. If Trent knows that he has 53 plus part of a		
	foot and 12 plus part of a foot, than the distance must be greater than 65, not		
	less than 65. 53 + 12 = 65		
OR other valid explanation			
	Trent lets his hook drop another 10 inches. What is the distance, in feet, between the tip of the fishing rod and the hook? Do not round your answer.		
	Show your work.		
	$53 + 12 + \frac{3}{4} + \frac{2}{3} + \frac{10}{12}$		
	$53 + 12 + \frac{5}{12} + \frac{3}{12} + \frac{10}{12}$		
	$65 + \frac{27}{12} = 65 + 2 + \frac{3}{12} = 67\frac{1}{4}$		
	OR other valid process		
	$67\frac{1}{4}$ OR other equivalent answer		

Additional **GUIDE PAPER 1** 53 it is a inclos 59 Trent is fishing from a pier. 95.**7**3 • The tip of his fishing rod is $53\frac{3}{4}$ feet above the surface of the water. State hook on the end of the fishing line is directly below the tip of the fishing rod $12\frac{2}{3}$ feet below the surface of the water. Trent estimates that the distance between the tip of his fishing rod and the hook is less than 65 feet. Is Trent's estimate reasonable? Explain your answer. Answer Toot's advise ion' reasonable because you want have to add the measurements together is after to third the defence between the listing and hack. 537 is about 54 and 123 is about 13, so 54+13=67 which is preater than 65 bot of EGI 13,50 Trent lets his hook drop another 10 inches. What is the distance, in feet, between the tip of the fishing rod and the hook? Do not round your answer. Show your work. 53 feel and 9 notes = 537 10 feet and & writes = 123 12 3+53 = (6 3 66分+岩= 67音。67日 Answer 674 feet

Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response provides a correct explanation and correctly determines the new distance.

GUIDE PAPER 2 59 Trent is fishing from a pier. 53.75 • The tip of his fishing rod is $53\frac{3}{4}$ feet above the surface of the water. · The hook on the end of the fishing line is directly below the tip of the fishing rod $12\frac{2}{3}$ leet below the surface of the water. Trent estimates that the distance between the tip of his fishing rod and the hook is less than 65 feet. Is Trent's estimate reasonable? Explain your answer. Answer Trevits estimate isn't reasonable because if you just add the whole numbers it is 65 50 include the fractions it will if you Trent lets his hook drop another 10 inches. What is the distance, in feet, between the tip of the fishing rod and the hook? Do not round your answer. than that end Show your work. he estimated it to be less than 12 12 -10. 65 feet. 2ポンコケロ Answer 67.25 feet

Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response provides a correct explanation and correctly determines the new distance.

59 Trent is fishing from a pier. • The tip of his fishing rod is $53\frac{3}{4}$ feet above the surface of the water. The hook on the end of the fishing line is directly below the tip of the fishing rod $12\frac{2}{3}$ feet below the surface of the water. Trent estimates that the distance between the tip of his fishing rod and the hook is less than 65 feet. Is Trent's estimate reasonable? Explain your answer. Answer No, been ats) is chirdy 65 so add the freeties, it would lac to be mare then 65. Trent lets his hook drop another 10 inches. What is the distance, in feet, between the tip of the fishing rod and the hook? Do not round your answer. Show your work. 531491. 1244 8-65 Min 66Ft Sin 65 21-673. Answer 3 67 feet

Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response provides a correct explanation and correctly determines the new distance.

59 Trent is fishing from a pier. • The tip of his fishing rod is $53\frac{3}{4}$ feet above the surface of the water. · The hook on the end of the fishing line is directly below the tip of the fishing rod $12\frac{2}{3}$ feet below the surface of the water. Trent estimates that the distance between the tip of his fishing rod and the hook is less than 65 feet. is Trent's estimate reasonable? Explain your answer. Answer No, Trents explanation is not reasonable because by looking at it, you know it's of least going to be more than 65ft. Trent lets his hook drop another 10 inches. What is the distance, in feet, between the tip of the fishing rod and the hook? Do not round your answer. Show your work. 12 =+ 10 inches 13-2+ 53- $12 \cdot \frac{8}{12} + \frac{10}{12}$ 13금 + 53를 12 18 $= 66 - (\frac{2}{4} + \frac{3}{4})$ 12+13= = 66+ 14 133 = 67 = Answer 672 feet

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response provides an incomplete explanation: the statement "*by looking at it*" is not sufficient to support the answer. The work to determine the new distance is correct. The response converts 10 inches to feet and has a correct solution.



Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response has a correct explanation of why the estimate is not reasonable. The work for determining the new distance is partially correct. The response does not convert 10 inches to feet. An error occurs when 10 is added to the other two numbers instead of 10/12, resulting in an incorrect solution.

59 Trent is fishing from a pier. • The tip of his fishing rod is $53\frac{3}{4}$ feet above the surface of the water. The hook on the end of the fishing line is directly below the tip of the fishing rod $12\frac{2}{3}$ feet below the surface of the water. Trent estimates that the distance between the tip of his fishing rod and the hook is less than 65 feet. Is Trent's estimate reasonable? Explain your answer. Answer No, because both the numbers would all up to be more than 65. Also, if the numbers were estimated it would be 54+13 which escues Trent lets his hook drop another 10 inches. What is the distance, in feet, between the tip of the fishing rod and the hook? Do not round your answer. 125 53 Show your work. Вź Answer 67 10 feet

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response has a correct explanation as to why the estimate is not reasonable. The work for determining the new distance is partially correct. The response converts 10 inches to feet. There is a transcription error in the work when adding $(53^{3}/_{5}+13^{1}/_{2})$, it should be $53^{3}/_{4}$ resulting in an incorrect answer. The response addresses most elements of the task correctly.

59	Trent is fishing from a pier.	
	• The tip of his fishing rod is $53\frac{3}{4}$ feet above the surface of the water.	
	 The hook on the end of the fishing line is directly below the tip of the 	
	fishing rod $12\frac{2}{3}$ feet below the surface of the water.	
	Trent estimates that the distance between the tip of his fishing rod and the hook is less than 65 feet. Is Trent's estimate reasonable? Explain your answer.	
	Answer I added 533 and 122 togs and I add 6672 Sow that's MY answer/	
	Trent lets his hook drop another 10 inches. What is the distance, in feet, between the tip of the fishing rod and the hook? Do not round your answer.	
	Show your work.	
	665	
	Answer 2012 feet	

Score Point 1 (out of 3 points)

This response demonstrates a limited understanding of the mathematical concepts in the task. Although the work provides a correct value for the original distance, the explanation of why the estimate is unreasonable is missing. The work for determining the new distance is partially correct. The response does not convert 10 inches to feet. An error is made when 10 rather than 10/12 is added. The response addresses some elements of the task correctly.

[
59	Trent is fishing from a pier.
	• The tip of his fishing rod is $53\frac{3}{4}$ feet above the surface of the water.
	• The hook on the end of the fishing line is directly below the tip of the
	65 fishing rod $12\frac{2}{3}$ feet below the surface of the water.
	Trent estimates that the distance between the tip of his fishing rod and the hook is less than 65 feet. Is Trent's estimate reasonable? Explain your answer.
	Answer DECILISE WICH YOL and 53 +R It Equally
	BOW YOU WID have to dring the rest
	of the fraction
	Trent lets his hook drop another 10 inches. What is the distance, in feet, between the tip of the fishing rod and the hook? Do not round your answer, $\frac{4}{2}$
	53 32
	83
	Answer 85 feet

Score Point 1 (out of 3 points)

This response demonstrates a limited understanding of the mathematical concepts in the task. The response has a correct explanation as to why the estimate is not reasonable. The work for determining the new distance is incorrect. The response addresses some elements of the task correctly, and reflects a lack of essential understanding.

59 Trent is fishing from a pier. • The tip of his fishing rod is $53\frac{3}{4}$ feet above the surface of the water. The hook on the end of the fishing line is directly below the tip of the fishing rod $12\frac{2}{3}$ feet below the surface of the water. Trent estimates that the distance between the tip of his fishing rod and the hook is less than 65 feet. Is Trent's estimate reasonable? Explain your answer. Answer It is receased is as in order to find the distance from the tip to the book you grund subtract 123 from 533 resulting in a number less than 65. Trent lets his hook drop another 10 inches. What is the distance, in feet, between the tip of the fishing rod and the hook? Do not round your answer. show your work. 12 + 12=13 = (13 + 6 in) 53-1-13音=40-1(音) 40-

Score Point 1 (out of 3 points)

This response demonstrates a limited understanding of the mathematical concepts in the task. The student misinterprets the question and has an incorrect explanation as to why the estimate is reasonable. The work for determining the new distance is partially correct. The response converts 10 inches to feet. Then, the new distance from the hook to the surface is calculated. The response subtracts $13^{6}/_{12}$ instead of adding it, resulting in incorrect answer. The response addresses some elements of the task correctly and reflects a lack of essential understanding.

59

Trent is fishing from a pier, • The tip of his fishing rod is $53\frac{3}{4}$ feet above the surface of the water. The hook on the end of the fishing line is directly below the tip of the fishing rod $12\frac{2}{3}$ feet below the surface of the water. Trent estimates that the distance between the tip of his fishing rod and the hook is less than 65 feet. Is Trent's estimate reasonable? Explain your answer. Answer Yes, Trent's estimate is not reasonable becase the tip of his fishing rod is S37 feet above the surface Trent lets his hook drop another 10 inches. What Is the distance, in feet, between the tip of the fishing rod and the hook? Do not round your answer. Show your work. 强 416 Answer 51ta feet

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 as to why the estimate is not reasonable is incomplete. The work for determining the new distance is incorrect. The work contains too many errors to receive any credit.

59	Trent is fishing from a pier.
	• The tip of his fishing rod is $53\frac{3}{4}$ feet above the surface of the water.
	 The book on the end of the fishing line is directly below the tip of the
	fishing rod $12\frac{2}{3}$ feet below the surface of the water.
	Trent estimates that the distance between the tip of his fishing rod and the hook is less than 65 feet. Is Trent's estimate reasonable? Explain your answer.
	Answer
	Tes because 12 and 53 without
	being a fraction equals exactly 65.
	Trent lets his hook drop another 10 inches. What is the distance, in feet, between the tip of the fishing rod and the hook? Do not round your answer.
	Show your work.
	•
	Answer foot

Score Point 0 (out of 3 points)

This response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in task. The explanation is incorrect. The work for determining the new distance is missing.

60	The coach for a basketball team wants to buy new shoes for her 12 players.		
	Super Sports is offering a 20% discount on each pair of shoes, which were originally priced \$72.50. A 6.5% sales tax will be applied to the discounted price.		
	The same shoes are also available on Double Dribble's web site for \$54.75. A 9% processing fee will be applied to the cost of the shoes, plus a shipping fee of \$5.99 for each pair.		
	What is the difference in the total costs of the 12 pairs of shoes between the two stores?		
	Show your work.		
	Answer S		

EXEMPLARY RESPONSE

60	The coach for a basketball team wants to buy new shoes for her 12 players.		
	Super Sports is offering a 20% discount on each pair of shoes, which were originally priced \$72.50. A 6.5% sales tax will be applied to the discounted price.		
	The same shoes are also available on Double Dribble's web site for \$54.75. A 9% processing fee will be applied to the cost of the shoes, plus a shipping fee of \$5.99 for each pair.		
	What is the difference in the total costs of the 12 pairs of shoes between the two stores?		
	Show your work.		
	$12(72.50 \times 0.8 \times 1.065) = 741.24$		
	$12(54.75 \times 1.09 + 5.99) = 788.01$		
	788.01 - 741.24 = 46.77		
	Or other valid process		



Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response correctly calculates the cost of 12 pairs of shoes at Super Sports and on Double Dribble's web site. The answer for the difference in total costs between the two stores is correct.



Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response correctly calculates the cost of 12 pairs of shoes at Super Sports and on Double Dribble's web site. The answer for the difference in total costs between the two stores is correct.

60The coach for a basketball team wants to buy new shoes for her 12 players.Super Sports is offering a 20% discount on each main of shoes, which were originally priced 572.50. A 6.5% sales tax will be applied to the discounted price.The same shoes are also available on Double Dribble's web site for \$54.75. A 95% processing fee will be applied to the cost of the shoes, plus a shipping fee of \$5.99 for each pain.What is the difference in the total costs of the 12 pairs of shoes between the two stores?Show your work.Show your work.Show your work. $54(72.50)$ $55(56)$ $52(56)$ <		GUIDE	PAPER 3	
Super Sports is offering a 20% discount <u>on each main of shoes</u> , which were originally priced 372.50. A 6.5% sales tax will be applied to the discounted price. The same shoes are also available on Double Dribble's web site for \$54.75. A 9% processing fee of \$5.99 for each pair. What is the <u>difference</u> in the total costs of the 12 pairs of shoes between the two stores? Show your work. Since: Sports 0.8 (72.50) 458 - view aiscant 1.0265 (58) 1.0265 (58)	60	The coach for a basketball team war	its to buy new shoes for her 12 players.	
The same shoes are also available on Double Dribble's web site for \$\$4.75. A 9% processing fee will be applied to the cost of the shoes, plus a shipping fee of \$\$.99 for each pair. What is the <u>difference</u> in the total costs of the 12 pairs of shoes between the two stores? Show your work. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Super Sports is offering a 20% discount on each pair of shoes, which were originally priced \$72.50. A 6.5% sales tax will be applied to the discounted price.		
What is the <u>difference</u> in the total costs of the 12 pairs of shoes between the two stores? Show your work. $\begin{array}{c c} \hline & & & & & & & & & & & & & & & & & & &$		The same shoes are also available on 9% processing fee will be applied to \$5.99 for each pair.	Double Dribble's web site for \$54.75. A the cost of the shoes, plus a shipping fee of	
Show your work. Siper Sports Double Dibble's 0.8(72.50) \$58 - uim discant 0.590(58) 1.0205(58) \$58 - uim solo 106.5%(51) \$58 - 01 - 12 parn \$58 - 01 - 12 parn \$588 - 01 - 12 parn		What is the <u>difference</u> in the total co stores?	sts of the 12 pairs of shoes between the two	
Super Sports Dauble Dibble's $0.8(72.50)$ #9% processing fee $0.8(72.50)$ 59.6775 $558 - vim aiscant$ 59.6775 $(0.596(58))$ $\frac{1}{5.99}$ $1.065(58)$ $\frac{58}{58}$ $1.065(58)$ $\frac{58}{58}$ 461.77 $7vim sals 100.5\%(51)$ 461.77 $\frac{12}{$788.01$}$ 45788.01 $\frac{12}{$788.01$}$ 4788.01 $\frac{12}{$4741.24$}$ 4766.777 $\frac{5786.01}{$46.77$}$		Show your work.		
$\begin{array}{c} 0.8(72.50) \\ \pm 58 - vitr & \pm 12 \\ 0.590(58) \\ 1.005(58) \\ \pm 61.77 \\ \times 12 \\ \pm 741.24 - total dar 12 \\ \pm 741.24 \\ \end{array}$		Super Sports	Dauble Dibble's	
$\begin{array}{c} 0.8(72.50) \\ \pm 58 - u(m) aiscant \\ (a.590(58) \\ 1.065(58) \\ \pm 61.77 \\ \times 12 \\ \pm 741.24 - total dar 12 \\ \pm 741.24 \\ \end{array}$ $\begin{array}{c} + 54.75 (1.04) \\ 59.6775 \\ \pm 5.99 \\ (a.590(58) \\ \pm 5.99 \\ (b.775 + 1.29) \\ \pm 788.01 \\ \pm 78$			189% processing fee	
$\begin{array}{c} 59.6775 \\ (0.590(58) \\ 1.065(58) \\ $		0.8(72.50)	\$54.75 (1.09)	
$\begin{array}{rcl} 6.590(58) & \pm & 5.99 & \rightarrow shipping fee \\ \hline 65.6675 & \rightarrow hotol pe parv \\ \hline & & 12 \\ \hline & & 12 \\ \hline & & 12 \\ \hline & & & 12 \\ \hline & & & & 12 \\ \hline & & & & & & & \\ \hline & & & & & & & \\ \hline & & & &$		\$58 - with discant	59.6775	
$\begin{array}{c} 1.065(58) & \frac{58}{58} & \frac{65.6675 + 1001}{2} \approx par \\ \frac{12}{12} \\ \frac{12}{$		6.5% (5%)	↓ 5,99 → shipping fee	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		÷	65.6675 - 10tol ac par	
$\frac{106.77}{106.5\%(5)} = \frac{106.5\%(5)}{106.5\%(5)} = \frac{106.77}{106.77}$ $\frac{\times 12}{106.77} = \frac{12}{106.77}$ Answer \$ 46.77		1.065 (58) -58	X 12	
$ \begin{array}{c} $		\$61.77 -> with sals 106.5% (5	\$788.01 > for 12 pairs	
x 12 \$741.24 - total for 12 \$788.01 -+ 741.24 \$46.77		\$ 61.77		
\$741.24 - total dor 12 \$788.01 -\$741.24 \$46.77 Answer \$46.77		x 12		
+788.01 -+741.24 +16.77		\$741.24 - total for 12 pairs		
Answer \$ 46.77			\$788.01	
Answer \$ 46.77			-\$741.24	
Answer \$ 46.77			¥46.77	
		Answer \$ 46.77		

-

Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response correctly calculates the cost of 12 pairs of shoes at Super Sports and on Double Dribble's web site. The answer for the difference in total costs between the two stores is correct.

60	The coach for a basketball team wants to buy new shoes for her 12 players.		
	Super Sports is offering a 20% discount on each pair of shoes, which were originally priced \$72.50. A 6.5% sales tax will be applied to the discounted price.		
	The same shoes are also available on Double Dribble's web site for \$54.75. A 9% processing fee will be applied to the cost of the shoes, plus a shipping fee of \$5.99 for each pair.		
	What is the difference in the total costs of the 12 pairs of shoes between the two stores?		
	Show your work.		
	Super Sports: 72.50 x.20= 14.50 72.50-14.50= 58.00 58 × .065= 3.77 58+3.77=161.77) \$741.24		
	Dable Dribbles: 54.75×.09: 4.93 54.75+4.93: 59.68 59.68+5.99-165.67 (1788.04)		
	788.04 - 741.24 = 46.80		
	FAnswers 46.80		

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response correctly calculates the cost of 12 pairs of shoes at Super Sports. A correct procedure is provided to determine the cost of 12 pairs of shoes on Double Dribble's web site, however, early rounding results in an incorrect answer. The response correctly determines the difference in total costs between the two stores.

60	The coach for a basketball team wants to buy new shoes for her 12 players.		
	Super Sports is offering a 20% discount on each pair of shoes, which were originally priced \$72.50. A.6.5% sales tax will be applied to the discounted price.		
	The same shoes are also available on Double Dribble's web site for \$54.75. A 9% processing fee will be applied to the cost of the shoes, plus a shipping fee of \$5.99 for each pair.		
	What is the difference in the total costs of the 12 pairs of shoes between the two stores?		
	show your work. 54,75x.09=		
	72.50×.20-14.5 4.93		
	58×065=3.77 59.68		
	+ 3,77 + 5.99		
	61,77 65.677 96		
	Superior of C.		
	Answers 3.90		

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response correctly calculates the cost of one pair of shoes at Super Sports and on Double Dribble's web site. The response determines the difference in costs of only one pair of shoes. The response addresses most elements of the task correctly.



Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response correctly calculates the cost of 12 pairs of shoes at Super Sports. The processing fee is applied incorrectly (54.750 + 49.275) to the cost of a pair of shoes on Double Dribble's web site. The rest of the work is correct. The cost of one pair with a shipping fee is calculated, and then the total cost of 12 pairs of shoes is determined. The response determines the difference in total costs between the two stores. The response addresses most elements of the task correctly, and provides correct procedures.



Score Point 1 (out of 3 points)

This response demonstrates a limited understanding of the mathematical concepts in the task. The response correctly calculates the cost of 12 pairs of shoes at Super Sports. The processing fee is applied incorrectly (54.75 - 4.90) to the cost of a pair of shoes on Double Dribble's web site. The shipping fee is then correctly added to the cost of a pair of shoes and the result is correctly multiplied to determine the total cost of shoes on Double Dribble's web site. An error occurs when calculating the difference in total costs between the two stores: an incorrect value is used for the total cost at Super Sports, resulting in an incorrect answer. The response addresses some elements of the task correctly.

Additional **GUIDE PAPER 8** The coach for a basketball team wants to buy new shoes for her 12 players. 60 Super Sports is offering a 20% discount on each pair of shoes, which were originally priced \$72.50. A 6.5% sales tax will be applied to the discounted price. The same shoes are also available on Double Dribble's web site for \$54.75. A 9% processing fee will be applied to the cost of the shoes, plus a shipping fee of \$5.99 for each pair. What is the difference in the total costs of the 12 pairs of shoes between the two stores? Show your work. OD <u>9</u> 49275 100 100x = 492.75 = 4.92 100x = 377 x=3.77 29.17 CO \$69.78 Answer S

Score Point 1 (out of 3 points)

This response demonstrates a limited understanding of the mathematical concepts in the task. The response correctly calculates the cost of one pair of shoes at Super Sports. The procedure for determining the cost of 12 pairs of shoes on Double Dribble's web site is incorrect (the shipping fee of 12 pairs is added to the price of one pair). An incorrect procedure is used to determine the difference in total costs (the cost of one pair is subtracted from the cost of 12 pairs). The response addresses some elements of the task correctly but reflects a lack of essential understanding.



Score Point 1 (out of 3 points)

This response demonstrates a limited understanding of the mathematical concepts in the task. The response follows an incorrect procedure to determine the total cost of 12 pairs of shoes at Super Sports. An error is made when determining the processing fee on the Double Dribbles web site. Then the processing and shipping fees are added to the cost of a pair of shoes and the result is multiplied by 12 to determine the total cost of shoes. The difference in total costs between the two stores is calculated correctly. The response addresses some elements of the task and reflects a lack of essential 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. Although the answer for the total cost of shoes at Super Sports is correct, there is no work to support the answer. The work for determining the total cost of shoes on Double Dribble's web site is missing. The response does not provide sufficient work to show even a limited understanding of the concepts in the task.



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 response follows an incorrect procedure to determine the total cost of 12 pairs of shoes at Super Sports and on Double Dribble's web site. A calculation error is made when determining the difference in total costs between the two stores.

61	Ruby's Market sells smoked meats by the pound. The prices for several different meats are shown in the table.					
		RUBY'S M	ARKET PRICES			
		Type of Meat	Price per pound]		
		Beef	\$4.25			
		Chicken	\$2.50]		
		Sausage	\$3.25	1		
		Turkey	\$2.85]		
	Show your work.	How much more does $1\frac{1}{4}$ pounds of beef cost than $1\frac{1}{4}$ pounds of turkey?				
	Answer S	Answer S				
	Brad has \$10 to sper chicken. How much	Brad has \$10 to spend at Ruby's. He orders $\frac{1}{2}$ pound of sausage and $1\frac{1}{4}$ pounds of chicken. How much money will Brad have left after he pays for this order?				
	Show your work.					
	Answer S					

EXEMPLARY RESPONSE Ruby's Market sells smoked meats by the pound. The prices for several different meats 61 are shown in the table. RUBY'S MARKET PRICES Type of Meat Price per pound Beef \$4.25 Chicken \$2.50 \$3.25 Sausage \$2.85 Turkey How much more does $1\frac{1}{4}$ pounds of beef cost than $1\frac{1}{4}$ pounds of turkey? Show your work. $1^{1}/_{4} \times 4.25 - 1^{1}/_{4} \times 2.85$ = 5.31 - 3.56 = 1.75 or other valid response Answer \$____1.75 Brad has \$10 to spend at Ruby's. He orders $\frac{1}{2}$ pound of sausage and $1\frac{1}{4}$ pounds of chicken. How much money will Brad have left after he pays for this order? Show your work. $10 - (\frac{1}{2} \times 3.25 + \frac{11}{4} \times 2.5)$ = 10 - (1.63 + 3.13)= 10 – 4.76 = 5.24 or other valid response Answer S______5.24

Ruby's Market sells smoked meats by the pound. The prices for several different meats are shown in the table.

Type of Meat	Price per pound
Beef	\$4.25
Chicken	\$2.50
Sausage	\$3.25
Turkey	\$2.85

RUBY'S MARKET PRICES

How much more does $1\frac{1}{4}$ pounds of beef cost than $1\frac{1}{4}$ pounds of turkey?

Show your work.

61

Answer S.1. 75 mere

Brad has \$10 to spend at Ruby's. He orders $\frac{1}{2}$ pound of sausage and $3\frac{1}{4}$ pounds of chicken. How much money will Brad have left after he pays for this order?

Show your work.

Answer S

$$10 - ((5 \times 3.25) + (1.25 \times 2.5)) + (1.25 \times 2.5) +$$

Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response follows a correct procedure to determine the difference in costs of $1\frac{1}{4}$ pounds of beef and $1\frac{1}{4}$ pounds of turkey. A correct procedure is used when calculating how much money is left after ordering $\frac{1}{2}$ pound of sausage and $1\frac{1}{4}$ pounds of chicken. The lines used in the response do not indicate division; this is an inconsequential error that does not detract from the correct solution.
61

Ruby's Market sells smoked meats by the pound. The prices for several different meats are shown in the table.

	RUBY'S M	ARKET PRICES	
	Type of Meat	Price per pound	1
	Beef	\$4.25	1
	Chicken	\$2.50	1
	Sausage	\$3.25	
	Turkey	\$2.85	
Answer 5 1. 7 Brad has \$10 to chicken. How mi	spend at Rubys. He o	$\frac{2}{2} \cdot \frac{85}{2}$ $\frac{71.25}{200}$ $\frac{71.25}{7125}$ rders $\frac{1}{2}$ pound of same left after he pay	usage and $1\frac{1}{4}$ pounds one of this order?
Show your wa 10,00 - 4,7 - 5,2	*k 0 1 5 5	4,75 5.125	5
Answer 55.3	25		

Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response follows a correct procedure to determine the difference in costs of meats. A correct procedure is provided when calculating the amount of money left after placing the order.

GUIDE PAPER 3 61 Ruby's Market sells smoked meats by the pound. The prices for several different meats are shown in the table. **RUBY'S MARKET PRICES** Type of Meat Price per pound Beef \$4.25 Chicken \$2.50 \$3.25 Sausage Turkey \$2.85 How much more does $1\frac{1}{4}$ pounds of beef cost than $1\frac{1}{4}$ pounds of turkey? Show your work. 1.75 Brad has \$10 to spend at Ruby's. He orders $\frac{1}{2}$ pound of sausage and $1\frac{1}{4}$ pounds of chicken. How much money will Brad have left after he pays for this order? 1.63 51,5+ Show your work. Answers 5.24

Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The response follows a correct procedure to determine the difference in costs of meats. A correct procedure is provided when calculating the amount of money left after placing the order.

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61

Ruby's Market sells smoked meats by the pound. The prices for several different meats are shown in the table.

	RÚBY'S MA	ARKET PRICI	ES	
Тур	pe of Meat	Price per po	bnu	
Bee	ef	\$4.25		
Chi	icken	\$2.50		
Sau	usage	\$3.25		
Tur	rkey	\$2.85		
How much more does 1 Show your work. Answer <u>s</u> 1.75	4.25 (<u>1.25</u> (<u>3.31</u>	- 5.31	2.85 (<u>1.25</u> 3.5	urkey?
		1. 75	-	
Brad has \$10 to spend at	Ruby's. He or	ders 2 pound	of sausage and	14 pounds of
chicken. How much mone	ey will Brad h	ave left after h	e pays for this	order?
Show your work. X	3.25	2	× 1.2	$\frac{5}{2}$
Answer 5 <u>5,26</u>	-	3.12	5,14	- 10.00 - <u>4.74</u> 5.26

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response follows a correct procedure to determine the difference in costs of meats. A correct procedure is provided when calculating how much money is left after placing the order; however truncation errors occur when determining the cost of meats, resulting in an incorrect solution.

61

Ruby's Market sells smoked meats by the pound. The prices for several different meats are shown in the table.

	RUBY'S M	ARKET PRICES	
	Type of Meat	Price per pound	7
	Beef	\$4.25	-
	Chicken	\$2.50	-
	Sausage	\$3.25	
	Turkey	\$2.85	
Answer S <u>1.75</u> Brad has \$10 to spen	d at Ruby's. He o	$\frac{4}{5.5}$ $\frac{4}{5.5}$ $\frac{3.56}{1.75}$ rders $\frac{1}{2}$ pound of se	usage and 1 ¹ / ₄ pounds c
chicken. How much r	noney will Brad h	ave left after he pa	ys for this order?
Show your work.	5 1.	63 4 163 4 163 7	9.50 .63
Aurum 5 4.7/		u 76	

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The response follows a correct procedure to determine the difference in costs of meats. A correct procedure is provided when calculating the cost of ordering $\frac{1}{2}$ pound of sausage and $1\frac{1}{4}$ pounds of chicken; however, the difference between the original amount of money and the cost of two meats is not determined.

Ruby's Market sells smoked meats by the pound. The prices for several different meats are shown in the table.

61

RUBY'S MARKET PRICES				
	Type of Meat	Price per pound		
	Beef	\$4.25		
	Chicken	\$2.50		
	Sausage	\$3.25		
	Turkey	\$2.85		
How much more doe	$\frac{1}{4}$ pounds of $\frac{1}{4}$	beef cost than $1\frac{1}{4}$ po	unds of turkey?	
and your north				
		D-4.25	(= 5.31	
			5-595	
		<u></u>	5-0.10	
Answer 5_0.64				
Brad has \$10 to sper	nd at Ruby's. He o	orders $\frac{1}{2}$ pound of sau	sage and 1 4 pounds of	
chicken. How much e	money will Brad I	have left after he pays	for this order?	
Show your work.				
	1.63	S-3.	25-1.63 20- 2.1 39a.166	
Answer S_5.20	1 4.76		4.76	

Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The cost of ordering $1\frac{1}{4}$ pounds of beef is calculated correctly. An error is made when calculating the cost of $1\frac{1}{4}$ pounds of turkey, resulting in an incorrect answer for the difference in costs of two meats. A correct procedure is provided when calculating how much money is left after placing the order.

61

Ruby's Market sells smoked meats by the pound. The prices for several different meats are shown in the table.



Score Point 1 (out of 3 points)

This response demonstrates a limited understanding of the mathematical concepts in the task. An error occurs when calculating the cost of $\frac{1}{4}$ pound of beef, resulting in an incorrect answer for the difference in costs of two meats. The cost of ordering $\frac{1}{2}$ pound of sausage is calculated correctly, however, the work is incomplete and the rest of the work is missing. The response addresses some elements of the task correctly and reflects a lack of essential understanding.

Additional

NODI J	MARKET PRICES	
Type of Me	at Price per pound	
Beef	\$4.25	1
Chicken	\$2.50	1
Sausage	\$3.25	1
Turkey	\$2.85	1
Answer S		
Brad has \$10 to spend at Ruby's. H chicken. How much money will Bri Show your work. fil. 6 fil. 6	te orders $\frac{1}{2}$ pound of sau ad have left after he pays 91.63 3 3	isage and $1\frac{1}{4}$ pounds of s for this order? 475.50

GUITDE PAPER 8

Score Point 1 (out of 3 points)

This response demonstrates a limited understanding of the mathematical concepts in the task. The response only determines the difference in costs of 1 pound of meats. A correct procedure is used when calculating how much money is left after ordering $\frac{1}{2}$ pound of sausage and $1\frac{1}{4}$ pounds of chicken. The response addresses some elements of the task correctly and reflects a lack of essential understanding.

61

Ruby's Market sells smoked meats by the pound. The prices for several different meats are shown in the table.

	RUBY'S M	ARKET PRICES	
	Type of Meat	Price per pound	
	Beef	\$4.25	1
	Chicken	\$2.50	
	Sausage	\$3.25	
	Turkey	\$2.85	
How much more do Show your work. Answer \$_1.7 Brad has \$10 to spe chicken. How much Show your work.	es 1 ¹ / ₄ pounds of 1:25 S nd at Ruby's. He c money will Brad I	beef cost than $1\frac{1}{4}$ po $\frac{4}{25}$ $\sqrt{15}$ 15	unds of turkey? $\frac{1}{\sqrt{25}} = \frac{2.85}{\sqrt{2}}$ $\frac{1}{\sqrt{25}} = \frac{2.85}{\sqrt{2}}$ $\frac{1}{\sqrt{25}} = \frac{35}{\sqrt{2}} = \frac{5}{\sqrt{25}}$ isage and $1\frac{1}{4}$ pounds of is for this order?
Answer S		-	

Score Point 1 (out of 3 points)

This response demonstrates a limited understanding of the mathematical concepts in the task. The response follows a correct procedure to determine the difference in the costs of meats. The work is incomplete and no work for the second question is provided. The response addresses some elements of the task correctly and reflects a lack of essential understanding.

61

Ruby's Market sells smoked meats by the pound. The prices for several different meats are shown in the table.

Beef\$4.25Chicken\$2.50Sausage\$3.25Turkey\$2.85 How much more does $1\frac{1}{4}$ pounds of beef cost than $1\frac{1}{4}$ pounds of turkey? Show your work. -2.05 -2.05 -2.05 -2.45 $-2.$	· ·	Type of Meat	Price per pound	
Chicken\$2.50Sausage\$3.25Turkey\$2.85How much more does $1\frac{1}{4}$ pounds of beef cost than $1\frac{1}{4}$ pounds of turkey?Show your work. $-\frac{3.05}{2.40}$ Answer s $\frac{4}{2.40}$ Brad has \$10 to spend at Ruby's. He orders $\frac{1}{2}$ pound of sausage and $1\frac{1}{4}$ pounds		Beef	\$4.25	1
Sausage\$3.25Turkey\$2.85How much more does $1\frac{1}{4}$ pounds of beef cost than $1\frac{1}{4}$ pounds of turkey?Show your work. $-\frac{3.65}{2.40}$ Answer s $\frac{1}{2.40}$ Brad has \$10 to spend at Ruby's. He orders $\frac{1}{2}$ pound of sausage and $1\frac{1}{4}$ pounds		Chicken	\$2.50	1
Turkey\$2.85How much more does $1\frac{1}{4}$ pounds of beef cost than $1\frac{1}{4}$ pounds of turkey?Show your work. $-\frac{105}{2.40}$ $-\frac{3.65}{2.40}$ Answer s 240 Brad has \$10 to spend at Ruby's. He orders $\frac{1}{2}$ pound of sausage and $1\frac{1}{4}$ pounds		Sausage	\$3.25	1
How much more does $1\frac{1}{4}$ pounds of beef cost than $1\frac{1}{4}$ pounds of turkey? Show your work. $-\frac{10}{2.45}$ $-\frac{10}{2.40}$ Answer s $\frac{4}{2.40}$ Brad has \$10 to spend at Ruby's. He orders $\frac{1}{2}$ pound of sausage and $1\frac{1}{4}$ pounds		Turkey	\$2.85	1
	3	<u>4</u> 0		
	Answer S Brad has \$10 chicken. How	240 to spend at Ruby's. He o much money will Brad t	rders $\frac{1}{2}$ pound of sanave left after he pay	usage and $1\frac{1}{4}$ pounds is for this order?
Show your work.	Answer S Brad has \$10 chicken. How Show your 1	240 to spend at Ruby's. He o much money will Brad t work.	rders $\frac{1}{2}$ pound of sa	usage and $1\frac{1}{4}$ pounds is for this order?
show your work. 9 1.63 2.75 2.75 10.00 1.63 1.63 -4.3	Answer S Brad has \$10 chicken. How Show your 1	240 to spend at Ruby's. He o much money will Brad t work.	rders $\frac{1}{2}$ pound of sa have left after he pay ,75	usage and 1 ¹ / ₄ pounds is for this order? 2.75 10.00 1.63 -4.3

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 response only determines the difference in costs of 1 pound of meats. The answer for the cost of $\frac{1}{2}$ pound of sausage is correct; however no work to support the answer is provided. The cost of $1\frac{1}{4}$ pounds of chicken is incorrect. Although the rest of the work to determine the cost of two meats and the amount of money left is correct, the response does not provide sufficient work to demonstrate even a limited understanding of the material.

1	Ruby's Market sells smoked meats by the pound. The prices for several different meat are shown in the table.				
	RUBY'S MA	ARKET PRICES			
	Type of Meat	Price per pound]		
	Beef	\$4.25	1		
	Chicken	\$2.50	1		
	Sausage	\$3.25]		
	Turkey	\$2.85	7		
	-2.75 Answer 5_1.75				
	Brad has \$10 to spend at Ruby's. He of	rders $\frac{1}{2}$ pound of sa	usage and $t\frac{1}{4}$ pounds of		
	chicken. How much money will Brad h	lave left after he pay	s for this order?		
	show your work. 42.75 +1.75 14.50 5.50	\$10,00 \$4.50 \$5.50	an mage		
	Answer S. J. J.				

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. An incorrect procedure is used to determine the difference in the costs of meats. The cost of sausage and chicken is calculated incorrectly. Although the rest of the work to determine the amount of money left is correct, the response does not provide sufficient work to demonstrate even a limited understanding of the material.