## 4MA SLM-T



Grade

Scoring Leader Materials
Training Set

## 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. <br> This response <br> - indicates that the student has completed the task correctly, using mathematically sound procedures <br> - contains sufficient work to demonstrate a thorough understanding of the mathematical concepts and/or procedures <br> - 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. <br> This response <br> - correctly addresses only some elements of the task <br> - may contain an incorrect solution but applies a mathematically appropriate process <br> - 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).

## 3-Point Holistic Rubric

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. <br> This response <br> - indicates that the student has completed the task correctly, using mathematically sound procedures <br> - contains sufficient work to demonstrate a thorough understanding of the mathematical concepts and/or procedures <br> - 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. <br> This response <br> - appropriately addresses most, but not all aspects of the task using mathematically sound procedures <br> - may contain an incorrect solution but provides sound procedures, reasoning, and/or explanations <br> - 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. <br> This response <br> - may address some elements of the task correctly but reaches an inadequate solution and/or provides reasoning that is faulty or incomplete <br> - exhibits multiple flaws related to misunderstanding of important aspects of the task, misuse of mathematical procedures, or faulty mathematical reasoning <br> - reflects a lack of essential understanding of the underlying mathematical concepts <br> - may contain the correct solution(s) but required work is limited |
| 0 Point ${ }^{\text {* }}$ | 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).

## 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.
3. 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.
5. 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.
7. Trial-and-error responses are not subject to Scoring Policy \#6 above, since crossing out is part of the trial-and-error process.
8. 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.
9. 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.

A loaf of bread is cut into slices of equal size. Some of the loaf is used in a recipe and $\frac{2}{12}$ of the loaf is used to make a sandwich. The remaining $\frac{7}{12}$ of the loaf is put into the refrigerator. Write and solve an equation to find the fraction of the loaf of bread that is used in the recipe.

Show your work.

Fraction $\qquad$

## EXEMPLARY RESPONSE

A loaf of bread is cut into slices of equal size. Some of the loaf is used in a recipe and $\frac{2}{12}$ of the loaf is used to make a sandwich. The remaining $\frac{7}{12}$ of the loaf is put into the refrigerator. Write and solve an equation to find the fraction of the loaf of bread that is used in the recipe.

Show your work.

$$
\begin{aligned}
& \frac{2}{12}+\frac{7}{12}+x=\frac{12}{12} \\
& x=\frac{12}{12}-\left(\frac{2}{12}+\frac{7}{12}\right) \\
& x=\frac{12}{12}-\frac{9}{12}=\frac{3}{12}=\frac{1}{4}
\end{aligned}
$$

Or other valid process

$$
\frac{3}{12}
$$

Fraction $\qquad$

A loaf of bread is cut into slices of equal size. Some of the loaf is used in a recipe and $\frac{2}{12}$ of the loaf is used to make a sandwich. The remaining $\frac{7}{12}$ of the loaf is put into the refrigerator. Write and solve an equation to find the fraction of the loaf of bread that is used in the recipe.

Show your work.

$$
\begin{gathered}
\frac{12}{12}-\left(\frac{7}{12}+\frac{2}{12}\right)=b \quad \frac{7}{12}+\frac{2}{12}=\frac{9}{12} \\
\frac{12}{12}-\frac{9}{12}=\frac{3}{12} \\
b=\frac{3}{12}
\end{gathered}
$$

$$
\text { fraction } \frac{3}{12} \text { loaf }
$$

Score Point 2 (out of 2 points)
This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct equation is written and solved to determine the solution, using a mathematically sound procedure.

## GUIDE PAPER 2

A loaf of bread is cut into slices of equal size. Some of the loaf is used in a recipe and $\frac{2}{12}$ of the loaf is used to make a sandwich. The remaining $\frac{7}{12}$ of the loaf is put into the refrigerator. Write and solve an equation to find the fraction of the loaf of bread that is used in the recipe.

## Show your work.

$$
\frac{2}{12}+\frac{7}{12}=\frac{7}{12}
$$

$$
\frac{9}{12}+? \cdot \frac{12}{12} \text { or }
$$

$$
\frac{12}{12}-\frac{0}{12}=\frac{3}{12}
$$



Fraction $\frac{3}{12}$
$\square=$ sandwich

## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. Multiple equations are written and used to correctly determine the solution. Providing separate equations does not detract from the demonstration of a thorough understanding.

## GUIDE PAPER 3

A loaf of bread is cut into slices of equal size. Some of the loaf is used in a recipe and $\frac{2}{12}$ of the loaf is used to make a sandwich. The remaining $\frac{7}{12}$ of the loaf is put into the refrigerator. Write and solve an equation to find the fraction of the loaf of bread that is used in the recipe.

Show your work.

$$
\begin{gathered}
\frac{12}{12}-\left(\frac{2}{12}+\frac{7}{12}\right)=x \\
x=\frac{3}{12}
\end{gathered}
$$

Fraction $x=\frac{3}{12}$

## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct equation is written and solved to determine the solution, using a mathematically sound procedure.

## GUIDE PAPER 4

A loaf of bread is cut into slices of equal size. Some of the loaf is used in a recipe and $\frac{2}{12}$ of the loaf is used to make a sandwich. The remaining $\frac{7}{12}$ of the loaf is put into the refrigerator. Write and solve an equation to find the fraction of the loaf of bread that is used in the recipe.

Show your work.


## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. Although correct calculations and solution are provided, an equation is not written to determine the fraction of bread used in the recipe. Stacked subtraction is not considered acceptable for an equation. As per Scoring Policy \#9, in questions requiring number sentences, the number sentences must be written horizontally. The response contains the correct solution but required work is incomplete.

## GUIDE PAPER 5

A loaf of bread is cut into slices of equal size. Some of the loaf is used in a recipe and $\frac{2}{12}$ of the loaf is used to make a sandwich. The remaining $\frac{7}{12}$ of the loaf is put into the refrigerator. Write and solve an equation to find the fraction of the loaf of bread that is used in the recipe.

Show your work.


Fraction


## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. An equation is written solving for the fraction of bread not used in the recipe. The result is not subtracted from 1, and is provided as the final solution. The response contains an incorrect solution but applies a mathematically appropriate process.

## GUIDE PAPER 6

A loaf of bread is cut into slices of equal size. Some of the loaf is used in a recipe and $\frac{2}{12}$ of the loaf is used to make a sandwich. The remaining $\frac{7}{12}$ of the loaf is put into the refrigerator. Write and solve an equation to find the fraction of the loaf of bread that is used in the recipe.

Show your work.
Total $=\frac{12}{12}$ because thereisa total of 12 slices


Fraction $\frac{5}{12}$

## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. Although correct calculations and solution are provided, an equation is not written. The response contains the correct solution but required work is incomplete.

## GUIDE PAPER 7

A loaf of bread is cut into slices of equal size. Some of the loaf is used in a recipe and $\frac{2}{12}$ of the loaf is used to make a sandwich. The remaining $\frac{7}{12}$ of the loaf is put into the refrigerator. Write and solve an equation to find the fraction of the loaf of bread that is used in the recipe.

Show your work.


Fraction $\qquad$

## 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 correct solution is provided; however, the work is erased, is not legible and cannot be scored. As per Scoring Policy \#3, if students are directed to show work, a correct answer with no work shown receives no credit.

GUIDE PAPER 8
Additional
A loaf of bread is cut into slices of equal size. Some of the loaf is used in a recipe and $\frac{2}{12}$ of the loaf is used to make a sandwich. The remaining $\frac{7}{12}$ of the loaf is put into the refrigerator. Write and solve an equation to find the fraction of the loaf of bread that is used in the recipe.

Show your work.


## 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 irrelevant and does not address the task.

47 During a weekend sale, a store sold 85 DVDs for $\$ 19$ each. What is the total amount of money, rounded to the nearest hundred, the store made by selling DVDs?

Show your work.

Answer \$ $\qquad$

## EXEMPLARY RESPONSE

47
During a weekend sale, a store sold 85 DVDs for $\$ 19$ each. What is the total amount of money, rounded to the nearest hundred, the store made by selling DVDs?

Show your work.
$85 \times 19=(85 \times 10)+(85 \times 9)=850+765=\$ 1615$
$\$ 1615 \approx \$ 1600$ rounded to the nearest hundred

Or other valid process

Answer $\$ 1600$

## GUIDE PAPER 1

Additional
47
During a weekend sale, a store sold 85 DVDs for $\$ 15$ each, What is the total amournt of money, rounded to the nearest hundreu, the store made by selling DVDs?

Show your work.


Answer 51,600

## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The total amount of money is correctly calculated using a mathematically sound procedure. The solution is correctly rounded to the nearest hundred.

## GUIDE PAPER 2

47 During a weekend sale, a store sold 85 DVDs for $\$ 19$ each. What is the total amount of money, rounded to the nearest hundred, the store made by selling DVDs?

## Show your work.



## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The total amount of money is correctly calculated using a mathematically sound procedure. The solution is correctly rounded to the nearest hundred.

## GUIDE PAPER 3

47 During a weekend sale, a store sold 85 DVDs for $\$ 19$ each. What is the total amount of money, rounded to the nearest hundred, the store made by selling DVDs?

Show your work.


$$
1,615=1,600
$$



## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The total amount of money is correctly calculated using a mathematically sound procedure. The solution is correctly rounded to the nearest hundred.

## GUIDE PAPER 4

47
During a weekend sale, a store sold 85 DVDs for $\$ 19$ each. What is the total amount of money, rounded to the nearest hundred, the store made by selling DVDs?

## Show your wark.



## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. A calculation error $(85 \times 9 \neq 755)$ results in an incorrect answer for the total amount of money. The final solution is correctly rounded to the nearest hundred. The incorrect work of early rounding is not used in the calculation of the solution and is considered inconsequential. The response contains an incorrect solution but applies a mathematically appropriate process.

## GUIDE PAPER 5

 amount of money, rounded to the nearest hundred, the store made by selling DVDs?
## Show your work.


-


is founded to


Answer $\$ 2,0^{\circ} 0$

## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. The total amount of money is correctly calculated; however, the final solution is rounded to the nearest thousand rather than hundred. The response contains an incorrect solution but applies a mathematically appropriate process.

## GUIDE PAPER 6

During a weekend sale, a store sold 85 DVDs for $\$ 19$ each. What is the total amount of money, rounded to the nearest hundred, the store made by selling DVDs?

Show your work.


Answer \$ 1) 615

## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. The total amount of money is correctly calculated; however, the final solution is not rounded. The response contains an incorrect solution but applies a mathematically appropriate process.

## GUIDE PAPER 7

 amount of money, rounded to the nearest hundrea, the store made by selling DVDs?
## Show your work.



## Score Point 0 (out of 2 points)

Although a correct multiplication operation is used to determine the solution, the work is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. Calculation errors are made when multiplying the two numbers $(85 \times 9 \neq 895$ and $895+850 \neq 1725)$ and the result is not rounded to the nearest hundred.

## GUIDE PAPER 8

Additional amount of money, rounded to the nearest hundred, the store made by selling DVDs?

## Show your work.



Answer $\$ 100$

## 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. Although the solution is correctly rounded to the nearest hundred, it is obtained using an incorrect procedure of adding the two numbers instead of multiplying.

Jodi sorted shapes into two groups based on the types of angles they appear to have, as shown below.


Group B


What do both shapes in Group A have in common? What do both shapes in Group B have in common?

Group A $\qquad$

Group B $\qquad$

Into which group does the shape below belong?


Group $\qquad$

## EXEMPLARY RESPONSE

48 Jodi sorted shapes into two groups based on the types of angles they appear to have, as shown below.


What do both shapes in Group A have in common? What do both shapes in Group B have in common?
Group $A$ Both shapes have at least one right angle.
Neither shape has a right angle. Both shapes have at least two acute angles.
Group B $\qquad$

Or other valid response

Into which group does the shape below belong?
$\square$

Group
A
$\qquad$

GUIDE PAPER 1
Additional
48 Jodi sorted shapes into two groups based on the types of angles they appear to have, as shown below.


What do both shapes in Group A have in common? What do both shapes in Group B have in common?

## Group A

The things that the shapes in group a have in common is they both have right angles.

## Group B

The things that the shapes in group b have in common is they both have acute angles.

Into which group does the shape below belong?


Group A

## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct common property is identified for each group, and the shape is correctly placed in Group A.

## GUIDE PAPER 2

Jodi sorted shapes into two groups based on the types of angles they appear to have, as shown below.

Group A


Group B


What do both shapes in Group A have in common? What do both shapes in Group B have in common?
Group A The shapes both have right angles Group $\boldsymbol{B}$ The shapes Doth have acute angles

Into which group does the shape below belong?

$\operatorname{Group} A$

## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct common property is identified for each group, and the shape is correctly placed in Group A.

## GUIDE PAPER 3

48 Jodi sorted shapes into two groups based on the types of angles they appear to have, as shown below.


What do both shapes in Group A have in common? What do both shapes in Group B have in common?

Group A
They have at least one right angle.

## Group B

They have at least 2 acute angles.

Into which group does the shape below belong?


Group $A$

## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct common property is identified for each group, and the shape is correctly placed in Group A.

## GUIDE PAPER 4

48 Jodi sorted shapes into two groups based on the types of angles they appear to have, as shown below.


What do both shapes in Group A have in common? What do both shapes in Group B have in common?

## Group A

In group A they both have odd sides.

## Group B

In group B they both have 1 pair of intersecting lines.

Into which group does the shape below belong?


Group A

## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. A correct common property is identified for Group A; however, the placement of the shape in Group A is incorrect based on the chosen common property (odd number of sides). The response correctly addresses only some elements of the task.

## GUIDE PAPER 5

Jodi sorted shapes into two groups based on the types of angles they appear to have, as shown below.


What do both shapes in Group A have in common? What do both shapes in Group B have in common?


Into which group does the shape below belong?


## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. A correct common property is identified for Group A and the shape is correctly placed in this group; however, the description for Group B is incorrect. The response correctly addresses only some elements of the task.

## GUIDE PAPER 6

48 Jodi sorted shapes into two groups based on the types of angles they appear to have, as shown below.


What do both shapes in Group A have in common? What do both shapes in Group B have in common?

## Group A

Using my protracter what group A has in common is that they both have 90 degree angles.

## Group B

They are odd and even angles.
Into which group does the shape below belong?


Group b

## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. A correct common property is identified for Group A and the shape is correctly placed in Group B based on the chosen common property (even number of angles); however, the common property for Group B is identified incorrectly.

## GUIDE PAPER 7

48
Jodi sorted shapes into two groups based on the types of angles they appear to have, as shown below.


What do both shapes in Group A have in common? What do both shapes in Group B have in common?

## Group A

They both have 3 sides

## Group B

1 is paraell 1 is not
Into which group does the shape below belong?
$\square$
Group A

## 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 common property is identified for Group A and the placement of the shape in Group A is not supported by the chosen common property for this group. The explanation for Group B is incorrect.

Jodi sorted shapes into two groups based on the types of angles they appear to have, as shown below.


What do both shapes in Group A have in common? What do both shapes in Group B have in common?


Into which group does the shape below belong?


## 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. Common properties are incorrectly identified and the placement of the shape in Group A is not supported by the explanation.

For a math project, Roxana made the table below to show the amount of time she spent doing different activities last weekend.

## WEEKEND ACTIVITIES

| Activity | Time Spent <br> (hours) |
| :--- | :---: |
| Dance Class | $\frac{6}{5}$ |
| Reading | $\frac{4}{12}$ |
| Soccer | $\frac{7}{8}$ |
| Swimming | $\frac{2}{6}$ |

On which activities did Roxana spend more than $\frac{1}{2}$ an hour? Explain how you know which activities would take more than $\frac{1}{2}$ an hour.

Show your work.

Answer

## EXEMPLARY RESPONSE

For a math project, Roxana made the table below to show the amount of time she spent doing different activities last weekend.

## WEEKEND ACTIVITIES

| Activity | Time Spent <br> (hours) |
| :--- | :---: |
| Dance Class | $\frac{6}{5}$ |
| Reading | $\frac{4}{12}$ |
| Soccer | $\frac{7}{8}$ |
| Swimming | $\frac{2}{6}$ |

On which activities did Roxana spend more than $\frac{1}{2}$ an hour? Explain how you know which activities would take more than $\frac{1}{2}$ an hour.

Show your work.
Dance $\quad 6 / 5=11 / 5=12 / 10=12 / 10 ; 1 / 2=5 / 10 ; 12 / 10>5 / 10 \quad$ therefore $6 / 5>1 / 2$
Reading $\quad 4 / 12=1 / 3=2 / 6 ; 1 / 2=3 / 6 ; 2 / 6<3 / 6 \quad$ therefore $4 / 12<1 / 2$
Soccer $\quad 1 / 2=4 / 8 ; 7 / 8>4 / 8 \quad$ therefore $7 / 8>1 / 2$
Swimming $\quad 1 / 2=3 / 6 ; 2 / 6<3 / 6 \quad$ therefore $2 / 6<1 / 2$
Or other valid response
Dance Class and Soccer
Answer $\qquad$

GUIDE PAPER 1
Additional
For a math project, Roxana made the table below to show the amount of time she spent doing different activities last weekend.

## WEEKEND ACTIVITIES

| Activity | Time Spent <br> (hours) |
| :--- | :---: |
| Dance Class | $\frac{6}{5}$ |
| Reading | $\frac{4}{12}$ |
| Soccer | $\frac{7}{8}$ |
| Swimming | $\frac{2}{6}$ |

On which activities did Roxana spend more than $\frac{1}{2}$ an hour? Explain how you know which activities would take more than $\frac{1}{2}$ an hour. Dance class

Show your work.


Answer
Dance class and soccer took more than $\frac{1}{2}$ an hour. Soccer was $\frac{7}{8}$ of an hour. Half of 8 is
4.Donce class was $\frac{5}{5}$ of an hour. That 1 hour and about 15 minutes. So these activities are more than half an hour.

## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. Correct activities are chosen and the explanation is complete and correct.

## GUIDE PAPER 2

For a math project, Roxana made the table below to show the amount of time she spent doing different activities last weekend.

WEEKEND ACTIVITIES

| Activity | Time Spent <br> (hours) |
| :--- | :---: |
| Dance Class | $\frac{6}{5}$ |
| Reading | $\frac{4}{12}$ |
| Soccer | $\frac{7}{8}$ |
| Swimming | $\frac{2}{6}$ |

On which activities did Roxana spend more than $\frac{1}{2}$ an hour? Explain how you know which activities would take more than $\frac{1}{2}$ an hour.

Show your work.


Answer


## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. Correct activities are chosen and the explanation is complete and correct. As per Scoring Policy \#1, if a student shows the work in other than a designated area, that work should still be scored.

## GUIDE PAPER 3

For a math project, Roxana made the table below to show the amount of time she spent doing different activities last weekend.

WEEKEND ACTIVITIES

| Activity | Time Spent <br> (hours) |
| :--- | :---: |
| Dance Classl | $\frac{6}{5}=1 \frac{4}{5}$ |
| Reading | $\frac{4}{12}$ |
| Soccer $\checkmark$ | $\frac{7}{8}$ |
| Swimaning | $\frac{2}{6}$ |

On which activities did Roxana spend more than $\frac{1}{2}$ an hour? Explain how you know which activities would take more than $\frac{1}{2}$ an hour.

Show your work.

$$
2
$$

## GUIDE PAPER 4

For a math project, Roxana made the table below to show the amount of time she spent doing different activities last weekend.

WEEKEND ACTIVITIES

| Activity | Time Spent <br> (hours) |
| :--- | :---: |
| Dance Class | $\frac{6}{5}$ |
| Reading | $\frac{4}{12}$ |
| Soccer | $\frac{7}{8}$ |
| Swimming | $\frac{2}{6}$ |

On which activities did Roxana spend more than $\frac{1}{2}$ an hour? Explain how you know which activities would take more than $\frac{1}{2}$ an hour.

Show your work.


Answer
Sacer because if soccer was a half of anthour it would be $\frac{14}{8}$ and soccer is $\frac{7}{8}$ so it's more than half.

## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. One activity is identified and a correct explanation for choosing this activity is provided. The response correctly addresses only some elements of the task.

## GUIDE PAPER 5

For a math project, Roxana made the table below to show the amount of time she spent doing different activities last weekend.

## WEEKEND ACTIVITIES

| Activity | Time Spent <br> (hours) |
| :--- | :---: |
| Dance Class | $\frac{6}{5}$ |
| Reading | $\frac{4}{12}$ |
| Soccer | $\frac{7}{8}$ |
| Swimming | $\frac{2}{6}$ |

On which activities did Roxana spend more than $\frac{1}{2}$ an hour? Explain how you know which activities would take more than $\frac{1}{2}$ an hour.
Show your work.



## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. One activity is identified and a correct explanation for choosing this activity is provided. The response correctly addresses only some elements of the task.

## GUIDE PAPER 6

For a math project, Roxana made the table below to show the amount of time she spent doing different activities last weekend.

## WEEKEND ACTIVITIES

| Activity | Time Spent <br> (hours) |
| :--- | :---: |
| Dance Class | $\frac{6}{5}$ |
| Reading | $\frac{4}{12}$ |
| Soccer | $\frac{7}{8}$ |
| Swimming | $\frac{2}{6}$ |

On which activities did Roxana spend more than $\frac{1}{2}$ an hour? Explain how you know which activities would take more than $\frac{1}{2}$ an hour.

Show your work.

$$
\begin{aligned}
& \text { Darecass } \frac{6}{5}=1 \frac{1}{5}=1 \text { hour } 12 \text { minutes } \\
& \text { soccer } \frac{7}{8}=\frac{3}{4}=\text { more than a ha If hour }
\end{aligned}
$$

## Answer

$$
\begin{aligned}
& \text { my answer is dance class } \\
& \text { and soccer is morethan } \frac{1}{2} \text { oran }
\end{aligned}
$$ hour.

## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. Two correct activities are identified and a correct explanation for dance class is provided; however, the work for soccer $(7 / 8 \neq 3 / 4)$ is incorrect. The response correctly addresses only some elements of the task.

## GUIDE PAPER 7

49
For a math project, Roxana made the table below to show the amount of time she spent doing different activities last weekend.

WEEKEND ACTIVITIES

| Activity | Time Spent <br> (hours) |
| :--- | :---: |
| Dance Class | $\frac{6}{5}$ |
| Reading | $\frac{4}{12}$ |
| Soccer | $\frac{7}{8}$ |
| Swimming | $\frac{2}{6}$ |

On which activities did Roxana spend more than $\frac{1}{2}$ an hour? Explain how you know which activities would take more than $\frac{1}{2}$ an hour.

RoXana spent more than
$1 / 2$ an hour on dance.
classes.

## 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. Although dance class is chosen, the chart provided for this activity is incorrect. Soccer activity is correctly represented on the chart; however, it is not chosen.

## GUIDE PAPER 8

For a math project, Roxana made the table below to show the amount of time she spent doing different activities last weekend.

WEEKEND ACTIVITIES

| Activity | Time Spent <br> (hours) |
| :--- | :---: |
| Dance Class | $\frac{6}{5}$ |
| Reading | $\frac{4}{12}$ |
| Soccer | $\frac{7}{8}$ |
| Swimming | $\frac{2}{6}$ |

On which activities did Roxana spend more than $\frac{1}{2}$ an hour? Explain how you know which activities would take more than $\frac{1}{2}$ an hour.

Show your work.


Answer
Swiming because it takes
more time.

## 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 activity is chosen and the work inappropriately compares the time for swimming with the time for dance class.

50 The figure below represents a play space that Logan fenced in for his dog.


Logan is getting a second dog and wants to increase the length of the play space by 3 feet and the width by 3 feet. What will be the difference in the area, in square feet, between the original play space and the new play space?

Show your work.

Answer $\qquad$ square feet

## EXEMPLARY RESPONSE

50 The figure below represents a play space that Logan fenced in for his dog.


Logan is getting a second dog and wants to increase the length of the play space by 3 feet and the width by 3 feet. What will be the difference in the area, in square feet, between the original play space and the new play space?

## Show your work.

Original area $\quad 10 \times 12=120 \mathrm{sq} \mathrm{ft}$
New area $\quad(10+3) \times(12+3)=13 \times 15=195 \mathrm{sqft}$

$$
\begin{equation*}
120+(3 \times 10)+(3 \times 12)+(3 \times 3)=120+75=195 \mathrm{sq} \mathrm{ft} \tag{Or}
\end{equation*}
$$

Difference
$195-120=75 \mathrm{sqft}$

Or other valid process

Answer
75 square feet

50 The figure below represents a play space that Logan fenced in for his dog.


Logan is getting a second dog and wants to increase the length of the play space by 3 feet and the width by 3 feet. What will be the difference in the area, in square feet, between the orlginal play space and the new play space? - 50


Answer $\qquad$ square feet
$10+3=13+\pi 50 \times 10=100$


$$
\begin{aligned}
& 10 \times 10=100 \\
& 10 \times 2=20)_{120} \frac{\begin{array}{l}
150 \\
+45
\end{array}}{195}
\end{aligned}
$$

$$
\begin{array}{r}
120+20+75 \\
+70+195 \\
\hline 190
\end{array}
$$

## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The play space areas and the difference between the areas are correctly calculated using mathematically sound procedures.

## GUIDE PAPER 2

50
The figure below represents a play space that Logan fenced in for his dog.


Logan is getting a second dog and wants to increase the length of the play space by 3 feet and the width by 3 feet. What will be the difference in the area, in square feet, between the original play space and the new play space?

Show your work.


## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The play space areas and the difference between the areas are correctly determined using mathematically sound procedures. The area of the original play space is calculated mentally, which is acceptable.

## GUIDE PAPER 3

50 The figure below represents a play space that Logan fenced in for his dog.


Logan is getting a second dog and wants to increase the length of the play space by $\mathbf{3}$ feet and the width by $\mathbf{3}$ feet. What will be the difference in the area, in square feet, between the original play space and the new play space?

Show your work.


## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The play space areas and the difference between the areas are correctly calculated using mathematically sound procedures.

## GUIDE PAPER 4

50
The figure below represents a play space that Logan fenced in for his dog.


Logan is getting a second dog and wants to increase the length of the play space by 3 feet and the width by 3 feet. What will be the difference in the area, in square feet, between the original play space and the new play space?

Show your work.
 is 195 Square


Answer 195 square feet

## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. The play space areas are correctly calculated; however, the difference between the areas is not addressed and the new play space area is provided as the solution. The response contains an incorrect solution but applies a mathematically appropriate process.

## GUIDE PAPER 5

50
The figure below represents a play space that Logan fenced in for his dog.


Logan is getting a second dog and wants to increase the length of the play space by 3 feet and the width by 3 feet. What will be the difference in the area, in square feet, between the original play space and the new play space?

Show your work.


Answer $\qquad$ square feet

## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. A calculation error is made when determining the new play space area $(15 \times 3 \neq 55)$. The difference between the areas is correctly calculated. The response contains an incorrect solution but applies a mathematically appropriate process.

## GUIDE PAPER 6

50 The figure below represents a play space that Logan fenced in for his dog.


Logan is getting a second dog and wants to increase the length of the play space by 3 feet and the width by 3 feet. What will be the difference in the area, in square feet, between the original play space and the new play space?

## Show your work.



$$
12 .
$$



Answer $\square$
46 square feet

## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. The area of the original play space is correctly calculated. One of the dimensions of the new play space is not increased by 3 and a calculation error is made $(13 \times 2 \neq 36)$, resulting in an incorrect new area and solution. The response contains an incorrect solution but applies a mathematically appropriate process.

## GUIDE PAPER 7

50
The figure below represents a play space that Logan fenced in for his dog.


Logan is getting a second dog and wants to increase the length of the play space by 3 feet and the width by 3 feet. What will be the difference in the area, in square feet, between the original play space and the new play space?


Answer offt square feet

## Score Point 0 (out of 2 points)

Although some elements may contain correct mathematical procedures, holistically they are not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. Only the area of a $3 \times 3$ square is calculated and provided as the solution.

50 The figure below represents a play space that Logan fenced in for his dog.


Logan is getting a second dog and wants to increase the length of the play space by 3 feet and the width by 3 feet. What will be the difference in the area, in square feet, between the original play space and the new play space?

Show yotr work.


## 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 original dimensions are inappropriately added rather than multiplied. The new play space is not addressed.

51 Aisha and Dave play the same computer game and compare their highest score each morning. Today, Aisha said that she scored thirty thousand twenty-five points, and Dave said that he scored thirty thousand two-hundred-five points.

Write a number sentence using one of the symbols, >, <, or = , to correctly compare Aisha's number of points to Dave's number of points.

Answer

## EXEMPLARY RESPONSE

51 Aisha and Dave play the same computer game and compare their highest score each morning. Today, Aisha said that she scored thirty thousand twenty-five points, and Dave said that he scored thirty thousand two-hundred-five points.

Write a number sentence using one of the symbols, $>,<$, or $=$, to correctly compare Aisha's number of points to Dave's number of points.

## Answer

$\qquad$
$30,025<30,205$
Or
$30,205>30,025$
Or other valid response

GUIDE PAPER 1
Additional
51 Aisha and Dave play the same computer game and compare their highest score each morning. Today, Aisha said that she scored thirty thousand twenty-five points, and Dave said that he scored thirty thousand two-hundred-five points.

Write a number sentence using one of the symbols, $>,<$, or $=$, to correctly compare Aisha's number of points to Dave's number of points.


## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct number sentence is written to compare the scores. The comma is misplaced in the work; however, as per Scoring Policy \#4, if students are not directed to show work, any work shown will not be scored.

## GUIDE PAPER 2

51 Aisha and Dave play the same computer game and compare their highest score each morning. Today, Aisha said that she scored thirty thousand twenty-five points, and Dave said that he scored thirty thousand two-hundred-five points.
Write a number sentence using one of the symbols, $>_{1}<$, or $=$, to correctly compare Aisha's number of points to Dave's number of points.
Answer $30,025030,205$


## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct number sentence is written to compare the scores.

## GUIDE PAPER 3

51 Alsha and pave play the same computer game and compare their highest score east morning. Today Aisha said that she scored thirty thousand toventicitin points, and Dave said that he scored thirivthousand two-hundred-five points.
Write a number sentence using one of the symbols, $>,<$, or $=$, to correctly compare Aisha's number of points to Naval's number of points.
answer Dave's is grater


## Score Point 2 (out of 2 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. A correct number sentence is written to compare the scores.

## GUIDE PAPER 4

51 Alsha and Dave play the same computer game and compare their highest score each morning. Today, Aisha said that she scored thirty thousand twenty-five points, and Dave said that he scored thirty thousand two-hundred-five points.

Write a number sentence using one of the symbols, $>,<$, or $=$, to correctly compare Aisha's number of points to Dave's number of points.


## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. Correct numbers are written; however, they are incorrectly compared. The response correctly addresses only some elements of the task.

## GUIDE PAPER 5

51 Aisha and Dave play the same computer game and compare their highest score each morning. Today, Aisha said that she scored thirty thousand twenty-five points, and Dave said that he scored thirty thousand two-hundred-five points.
Write a number sentence using one of the symbols, $>,<$, or $=$, to correctly compare Aisha's number of points to Dave's number of points.

Answer $3025<30205$


## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. Dave's number is correct; however, Aisha's number is missing a 0 in the thousands place. The two numbers are correctly compared. The response correctly addresses only some elements of the task.

## GUIDE PAPER 6

51 Aisha and Dave play the same computer game and compare their highest score each morning. Today; Aisha said that she scored thirty thousand twenty-five points, and Dave said that he scored thirty thousand two-hunared-five points.

Write a number sentence using one of the symbols, $>_{1}$, , or $=$, to correctly compare Aisha's number of points to Dave's number of points.

Answer
 3



## Score Point 1 (out of 2 points)

This response demonstrates only a partial understanding of the mathematical concepts in the task. Although a correct comparison is provided, both numbers are missing a 0 in the thousands place. The response correctly addresses only some elements of the task. As per Scoring Policy \#8, 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.

## GUIDE PAPER 7

51 Alsha and Dave play the same computer game and compare their highest score each morning. Today, Aisha said that she scored thirty thousand twentv-five points, and Dave said that he scored thirty thousand two-hundred-five points.

Write a number sentence using one of the symbols, $>,<$, or $=$, to correctly compare Aisha's number of points to Dave's number of points.

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 irrelevant and does not address the task.

GUIDE PAPER 8
Additional
51 Aisha and Dave play the same computer game and compare their highest score each morning. Today, Aisha said that she scored thirty thousand twenty-five points, and Dave said that he scored thirty thousand two-hundred-five points.

Write a number sentence using one of the symbols, $>,<$, or $=$, to correctly compare Aisha's number of points to Dave's number of points.

Answer


$$
13,025 \triangleleft 13,205
$$

## 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 numbers and the comparison are incorrect.

Sam was in a contest at the library to read as many books as he could in three months. At the end of the contest he earned 2 tickets for each book he read. The table below shows the number of books Sam read each month.

BOOKS SAM READ

| Month | Number of Books |
| :---: | :---: |
| January | 15 |
| February | 13 |
| March | 16 |

Sam was able to buy 1 prize for every 5 tickets he had earned. Sam bought as many prizes as he could with his tickets. How many prizes was Sam able to buy?

Show your work and explain your answer.

Answer
prizes

## EXEMPLARY RESPONSE

52 Sam was in a contest at the library to read as many books as he could in three months. At the end of the contest he earned 2 tickets for each book he read. The table below shows the number of books Sam read each month.

BOOKS SAM READ

| Month | Number of Books |
| :---: | :---: |
| January | 15 |
| February | 13 |
| March | 16 |

Sam was able to buy 1 prize for every 5 tickets he had earned. Sam bought as many prizes as he could with his tickets. How many prizes was Sam able to buy?

Show your work and explain your answer.
$15+13+16=44$ books
$44 \times 2=88$ tickets
$88 \div 5=17$ prizes and 3 left over tickets

Or other valid process

17
Answer $\qquad$ prizes

## GUIDE PAPER 1

Additional
52


Sam was able to buy 1 prize for every 5 tickets he had earned_ Sam bought as many prizes as he could with his tickets. How many-prizes was Sam able to buy?

Show your work and explain your answer.


Answer 17 prizes


1703



## Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The number of tickets is correctly calculated and a correct solution is determined using mathematically sound procedures. The response is complete and correct.

## GUIDE PAPER 2

52
Sam was in a contest at the library to read as many books as he could in three months. At the end of the contest he earned 2 tickets for each book he read. The table below shows the number of books Sam read each month.

BOOKS SAM READ

| Month | Number of Books |
| :--- | :---: |
| January | 15 |
| February | 13 |
| March | 16 |

Sam was able to buy 1 prize for every 5 tickets he had earned. Sam bought as many prizes as he could with his tickets. How many prizes was Sam able to buy?

Show your work and explain your answer.
(1)

(1) 15


Answer 17 prizes


## Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The number of tickets is correctly calculated and a correct solution is determined using mathematically sound procedures.

## GUIDE PAPER 3

52
Sam was in a contest at the library to read as many books as he could in three months. At the end of the contest he earned 2 tickets for each book he read. The table below shows the number of books Sam read each month.

BOOKS SAM READ

| Month | Number of Books |
| :---: | :---: |
| January | 15 |
| February | 13 |
| March | 16 |

Sam was able to buy 1 prize for every 5 tickets he had earned. Sam bought as many prizes as he could with his tickets. How many prizes was Sam able to buy?

Show your work and explain your answer.


Answer 17 . prizes
First, added the number of books he read and multiplied by two. 1 did this because everybrok he read has two tic He has 88 tickets. Then I divas the number d because he can buy d prize for 5 tickets and $h$ warts to hag men is horah. Herm GO ON
$\qquad$ buy.12prag

## Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The number of tickets is correctly calculated and a correct solution is determined using mathematically sound procedures.

## GUIDE PAPER 4

52 Sam was in a contest at the library to read as many books as he could in three months. At the end of the contest he earned (2) tickets for each book he read. The table below shows the number of books Sam read each month.

BOOKS SAM READ

| Month | Number of Books |
| :--- | ---: |
| January | $15 \times 2=30$ |
| February | $13 \times 2=30$ |
| March | $16 \times 2=32$ |

Sam was able to buy (1) prize for every (5) tickets he had earned. Sam bought as many prizes as he could with his tickets. How many prizes was Sam able to buy?

Show your work and explain your answer.
(1)


So, what I did is I multiply all the books and then I add altogether and if
IT subtracted by 5 all the way to
19 Prizes
Answer
 prizes

## 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 subtraction is used to determine the solution; however, a calculation error $(13 \times 2 \neq 36)$ results in an incorrect answer for the number of tickets and the final solution. The response contains an incorrect solution but provides mathematically sound procedures.

## GUIDE PAPER 5

Sam was in a contest at the library to read as many books as he could in three months. At the end of the contest he earned 2 tickets for each book he read. The table below shows the number of books Sam read each month.

BOOKS SAM READ

| Month | Number of Books |
| :--- | :---: |
| January | 15 |
| February | 13 |
| March | 16 |

Sam was able to buy 1 prize for every 5 tickets he had earned. Sam bought as many prizes as he could with his tickets. How many prizes was Sam able to buy?

Show your work and explain your answer.



## Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The number of tickets is calculated correctly and a correct procedure is used to determine the number of prizes; however, a calculation error ( $88 \div 5 \neq 16 \mathrm{R} 3$ ) results in an incorrect solution. The response contains an incorrect solution but provides mathematically sound procedures.

## GUIDE PAPER 6

52


Sam was able to buy 1 prize for every 5 tickets he had earned. Sam bought as many prizes as he could with his tickets. How many prizes was Sam able to buy?

Show your work and explain your answer.


Answer

## Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The work provides calculations for the number of prizes bought each month. A correct process of repeated subtraction is used to determine the solution; however, the calculations account for one ticket earned per book instead of two. The final addition is performed mentally. The response contains an incorrect solution but provides mathematically sound procedures.

## GUIDE PAPER 7

52
Sam was in a contest at the library to read as many books as he could in three months. At the end of the contest he earned 2 tickets for each book he read. The table below shows the number of books Sam read each month.

BOOKS SAM READ

| Month | Number of Books |
| :--- | :---: |
| January | 15 |
| February | 13 |
| March | 16 |

Sam was able to buy 1 prize for every 5 tickets he had earned. Sam bought as many prizes as he could with his tickets. How many prizes was Sam able to buy? Show your work and explain your answer.

you do $15 \div 5=3+$
$13 \div 5=2 \frac{3}{5}+66 \div 5=3 \frac{1}{5}=$


## Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. Although a correct process is applied to determine the solution, the work only accounts for one ticket per book. Additionally, the response reflects a lack of understanding that the number of prizes must be a whole number. The response addresses some elements of the task correctly but exhibits multiple flaws related to misunderstanding of important aspects of the task.

52 Sam was in a contest at the library to read as many books as he could in three months. At the end of the contest he earned 2 tickets for each book he read. The table below shows the number of books Sam read each month.

BOOKS SAM READ

| Month | Number of Books |
| :---: | :---: |
| January | 15 |
| February | 13 |
| March | 16 |

Sam was able to buy 1 prize for every 5 tickets he had earned. Sam bought as many prizes as he could with his tickets. How many prizes was Sam able to buy?

Show your work and explain your answer.


## Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. The total number of books read is calculated correctly; however, the result is divided rather than multiplied by 2 , and no work is provided to support the solution. The response addresses some elements of the task correctly but reaches an inadequate solution due to reasoning that is faulty and incomplete.

## GUIDE PAPER 9

52
Sam was in a contest at the library to read as many books as he could in three months. At the end of the contest he earned 2 tickets for each book he read. The table below shows the number of books Sam read each month.

BOOKS SAM READ

| Month | Number of Books |
| :--- | :---: |
| January | 15 |
| February | 13 |
| March | 16 |

Sam was able to buy 1 prize for every 5 tickets he had earned. Sam bought as many prizes as he could with his tickets. How many prizes was Sam able to buy?

Show your work and explain your answer.


Answer $\qquad$ prizes

## Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. The total number of books read is correctly determined and the answer is misinterpreted as the number of prizes. The response addresses some elements of the task correctly but reaches an inadequate solution due to faulty reasoning.

## GUIDE PAPER 10

52 Sam was in a contest at the library to read as many books as he could in three months. At the end of the contest he earned 2 tickets for each book he-read. The table below shows the number of books Sam read each month.

BOOKS SAM READ

| Month | Number of Books |
| :---: | :---: |
| January | 15 |
| February | 13 |
| March | 16 |

Sam was able to buy 1 prize for every 5 tickets he had earned. Sam bought as many prizes as he could with his tickets. How many prizes was Sam able to buy?

Show your work and explain your answer.


## 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 number of tickets earned each month is correctly calculated, the work of adding $1 \times 5$ to the obtained answers shows no overall understanding.

## GUIDE PAPER 11

Additional
52
Sam was in a contest at the library to read as many books as he could in three months. At the end of the contest he earned 2 tickets for each book he read. The table below shows the number of books Sam read each month.

BOOKS SAM READ

| Month | Number of Books |
| :---: | :---: |
| January | 15 |
| February | 13 |
| March | 16 |

Sam was able to buy 1 prize for every 5 tickets he had earned. Sam bought as many prizes as he could with his tickets. How many prizes was Sam able to buy?

Show your work and explain your answer.


Answer $<4$

## 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 number of books read each month is incorrectly determined and no other work is provided.

53 A tree farmer planted 3 types of trees on 22 acres of land. He planted 48 trees per acre. What was the total number of trees the farmer planted?

## Show your work.

Answer $\qquad$ trees

The farmer planted an equal number of each type of tree. Oak trees were one of the 3 types of trees planted. What was the total number of oak trees planted?

Answer $\qquad$ oak trees

## EXEMPLARY RESPONSE

53 A tree farmer planted 3 types of trees on 22 acres of land. He planted 48 trees per acre. What was the total number of trees the farmer planted?

Show your work.

22
$\times 48$
176
88
1056

Or other valid process

Answer 1056

The farmer planted an equal number of each type of tree. Oak trees were one of the 3 types of trees planted. What was the total number of oak trees planted?

Answer_ 352 oak trees

GUIDE PAPER 1
Additional
53


The farmer planted an equal number of each type of tree. Oak trees were one of the 3 types of trees planted. What was the total number of oak trees planted?

352
Answer $\qquad$ oak trees

## Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The total number of trees is correctly calculated using a mathematically sound procedure. A correct solution for the total number of oak trees is provided. Note that students are not directed to show work for the total number of oak trees planted and, as per Scoring Policy \#4, if students are not directed to show work, any work shown will not be scored. This applies to items that ask for work for one part and do not ask for work in another part.

## GUIDE PAPER 2

53
A tree farmer planted 3 types of trees on 22 acres of land. He planted 48 trees per acre. What was the total number of trees the farmer planted?

Show your work.


Answer 1,056 trees

The farmer planted an equal number of each type of tree. Oak trees were one of the 3 types of trees planted. What was the total number of oak trees planted?


Answer 352 oak trees

## Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The total number of trees is correctly calculated and a correct solution for the total number of oak trees is provided.

## GUIDE PAPER 3

 per acre. What was the total number of trees the farmer planted?
## Show your work.



Answer $\qquad$ trees

The farmer planted an equal number of each type of tree. Oak trees were one


## Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The total number of trees is correctly calculated and a correct solution for the total number of oak trees is provided.

## GUIDE PAPER 4

A tree farmer planted 3 types of trees on 22 acres of land. He planted 48 trees per acre. What was the total number of trees the farmer planted?

## Show your work.

a 22 alt $0+1 \mathrm{bn}$ 克
ats trees pei act
? How ar et tree

did the farmer
$p f a=t$ is all?


Answer $\quad 1.056$ trees
17
Answer $\qquad$

The farmer planted an equal number of each type of tree. Oak trees were one of the 3 types of trees planted. What was the total number of oak trees planted?


Answer
356 oak trees

## Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The total number of trees is correctly calculated; however, the solution for the number of oak trees is incorrect. The response appropriately addresses most, but not all aspects of the task using a mathematically sound procedure.

## GUIDE PAPER 5

A tree farmer planted 3 types of trees on 22 acres of land. He planted 48 trees per acre. What was the total number of trees the farmer planted?

Show your work.


Answer $\qquad$ trees

The farmer planted an equal number of each type of tree. Oak trees were one of the 3 types of trees planted. What was the total number of oak trees planted?

Answer $\qquad$ oak trees

## Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The total number of trees is correctly calculated; however, no solution for the number of oak trees is provided. The response appropriately addresses most, but not all aspects of the task using a mathematically sound procedure.

## GUIDE PAPER 6

 per acre. What was the total number of trees the farmer planted?Show your work.

Answer $\qquad$ trees

The farmer planted an equal number of each type of tree. Oak trees were one of the 3 types of trees planted. What was the, total number of oak trees planted?


Answer $\qquad$ oak trees

## Score Point 2 (out of $\mathbf{3}$ points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The total number of trees is correctly calculated; however, an incorrect solution for the number of oak trees is provided. The response appropriately addresses most, but not all aspects of the task using a mathematically sound procedure. As per Scoring Policy \#4, if students are not directed to show work, any work shown will not be scored.

## GUIDE PAPER 7

53 A tree farmer planted 3 types of trees on 22 acres of land. He planted 48 trees per acre. What was the total number of trees the farmer planted?

Show your work.

1

,


Answer $\qquad$ trees

The farmer planted an equal number of each type of tree. Oak trees were one of the 3 types of trees planted. What was the total number of oak trees planted?

Answer $\qquad$ oak trees

## Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. An appropriate process is applied to calculate the total number of trees; however, a calculation error $(176+880 \neq 956)$ results in an incorrect solution. The answer for the number of oak trees is not provided. The response addresses some elements of the task correctly, but reflects a lack of essential understanding of the underlying mathematical concepts.

A tree farmer planted 3 types of trees on 22 acres of land. He planted 48 trees per acre. What was the total number of trees the farmer planted?

Show your work.


The farmer planted an equal number of each type of tree. Oak trees were one of the 3 types of trees planted. What was the total number of oak trees planted?


## Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. An appropriate process is applied to calculate the total number of trees; however, a calculation error $(20 \times 48 \neq 1680)$ results in an incorrect solution. The answer for the number of oak trees is incorrect (should be 592 using an incorrect answer for the total number of trees). The response addresses some elements of the task correctly, but exhibits multiple flaws related to misunderstanding of important aspects of the task.

## GUIDE PAPER 9

53
A tree farmer planted 3 types of trees on 22 acres of land. He planted 48 trees per acre. What was the total number of trees the farmer planted?


The farmer planted an equal number of each type of tree. Oak trees were one of the 3 types of trees planted. What was the total number of oak trees planted?


Answer
 oak trees

## Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. An incorrect procedure is followed to determine the total number of trees. The result is used to correctly solve for the number of oak trees. The response addresses some elements of the task correctly but reaches an inadequate solution due to faulty reasoning.

## GUIDE PAPER 10

53 A tree fapmerphomted 3 types of treason-2zecres of-tand. He planted 48 trees per acre. What was the total number of trees the farmer planted?

Show your work.


Answer $\qquad$ trees

The farmer planted an equal number of each type of tree. Oak trees were one of the 3 types of trees planted. What was the total number of oak trees planted?


Answer $\qquad$ oak trees

## Score Point 0 (out of $\mathbf{3}$ points)

Although a correct multiplication operation is shown, the work is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. Both solutions are incorrect.

## GUIDE PAPER 11

A tree farmer planted 3 types of trees on 22 acres of land. He planted 48 trees per acre. What was the total number of trees the farmer planted?

1
Show your work.


73

Answer $\qquad$ trees

The farmer planted an equal number of each type of tree. Oak trees were one of the 3 types of trees planted. What was the total number of oak trees planted?


Answer
 oak trees

## 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 for the total number of trees is irrelevant and both solutions are incorrect.

The table below shows the sizes and weights of containers of potato salad sold at a store.

| POTATO SALAD |  |
| :---: | :---: |
| Size | Weight (pounds) |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and Seth purchased 2 extra large containers of potato salad. What is the difference in the weights, in pounds, of Kim's and Seth's purchases?

Show your work.

Answer $\qquad$ pounds

## EXEMPLARY RESPONSE

54 The table below shows the sizes and weights of containers of potato salad sold at a store.

POTATO SALAD

| Size | Weight (pounds) |
| :---: | :---: |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and Seth purchased 2 extra large containers of potato salad. What is the difference in the weights, in pounds, of Kim's and Seth's purchases?

Show your work.

| Kim's purchase | $6 \times 2 / 8=12 / 8=14 / 8$ |
| :--- | :--- |
| Seth's purchase | $2 \times 9 / 8=18 / 8=22 / 8$ |
|  | $18 / 8-12 / 8=6 / 8=3 / 4$ |

Or other valid process

Answer 6_ pounds

## GUIDE PAPER 1

The table below shows the sizes and weights of containers of potato salad sold at a store.

POTATO SALAD

| Size | Weight (pounds) |
| :--- | :---: |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and Seth purchased 2 extra large containers of potato salad. What is the difference in the weights, in pounds, of Kim's and Seth's purchases?

Show your work.


## Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The weight of each purchase is correctly calculated and the difference in weights is correctly determined using mathematically sound procedures.

## GUIDE PAPER 2

The table below shows the sizes and weights of containers of potato salad sold at a store.

POTATO SALAD

| Size | Weight (pounds) |
| :--- | :---: |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and Seth purchased 2 extra large containers of potato salad. What is the difference in the weights, in pounds, of Kim's and Seth's purchases?

Show your work.

$$
\begin{aligned}
& 6 \times \frac{2}{8}=\frac{12}{8} \\
& 2+\frac{9}{8}=\frac{18}{8}
\end{aligned}
$$

Answer $\not \div \frac{6}{8}$ pounds

## Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The weight of each purchase is correctly calculated and the difference in weights is correctly determined. The final subtraction is performed mentally and is acceptable for full credit.

## GUIDE PAPER 3

54 The table below shows the sizes and weights of containers of potato salad sold at a store.

POTATO SALAD

| Size | Weight (pounds) |
| :--- | :---: |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and Seth purchased 2 extra large containers of potato salad. What is the difference in the weights, in pounds, of Kim's and Seth's purchases?

Show your work.

$$
\begin{aligned}
\frac{9}{8}+\frac{9}{8} & =2 \frac{28}{8} \\
2 \frac{2}{8}-12 & =\frac{6}{8}
\end{aligned}
$$

Answer $\qquad$ pounds


## Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The weight of each purchase is correctly calculated and the difference in weights is correctly determined. Although the work for the weight of Kim's purchase is not shown, holistically this response is sufficient to demonstrate a thorough understanding.

## GUIDE PAPER 4

54
The table below shows the sizes and weights of containers of potato salad sold at a store.

| POTATO SALAD |  |
| :--- | :---: |
| Size | Weight (pounds) |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and Seth purchased 2 extra large containers of potato salad. What is the difference in the weights, in pounds, of Kim's and Seth's purchases?

Show your work.



Answer
 pounds

## Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The weight of each purchase is correctly calculated; however, the difference in weights is not addressed and the weight of Seth's purchase is provided as the solution. The response contains an incorrect solution but provides mathematically sound procedures and reflects some minor misunderstanding.

## GUIDE PAPER 5

54 The table below shows the sizes and weights of containers of potato salad sold at a store.

| POTATO SALAD |  |
| :--- | :---: |
| Size | Weight (pounds) |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and Seth purchased 2 extra large containers of potato salad. What is the difference in the weights, in pounds, of Kim's and Seth's purchases?

Show your work.


## Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The weight of each purchase is correctly calculated; however, a calculation error is made when solving for the difference in weights. The response contains an incorrect solution but provides mathematically sound procedures.

## GUIDE PAPER 6

54
The table below shows the sizes and weights of containers of potato salad sold at a store.

POTATO SALAD

| Size | Weight (pounds) |
| :--- | :---: |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and Seth purchased 2 extra large containers of potato salad. What is the difference in the weights, in pounds, of Kim's and Seth's purchases?

Show your work.

$$
\begin{aligned}
\frac{2}{8} \times 6=\frac{9}{8} & \frac{9}{8} \times 2=2 \frac{2}{8} \\
1 \frac{2}{8}+2 \frac{2}{8} & =3 \frac{4}{8}
\end{aligned}
$$

${ }_{\text {answer }} \underline{3 \frac{4}{8}}$ pounds

## Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The weight of each purchase is correctly calculated; however, the answers are added rather than subtracted to determine the solution. A transcription error is made ( $(12 / 8$ is written as $12 / 8$ ) when adding the two weights. The response appropriately addresses most, but not all aspects of the task using mathematically sound procedures.

## GUIDE PAPER 7

The table below shows the sizes and weights of containers of potato salad sold at a store.

POTATO SALAD

| Size | Weight (pounds) |
| :--- | :---: |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and Seth purchased 2 extra large containers of potato salad. What is the difference in the weights, in pounds, of Kim's and Seth's purchases?

Show your work.

$$
\text { Extra large }=1 \frac{1}{8}
$$

$$
\frac{2}{8} \times 0=\frac{12}{8}=1 \frac{1}{3}=\frac{32}{24}
$$



Answer $\frac{7}{8}$ pounds


## Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. The weight of each purchase is correctly calculated; however, $12 / 8$ is incorrectly simplified to $1 \frac{1}{3}$. Another error is made when simplifying the solution for the difference in weights $(22 / 24 \neq 7 / 8)$. The response addresses some elements of the task correctly but reflects a lack of essential understanding of how to simplify fractions.

## GUIDE PAPER 8

The table below shows the sizes and weights of containers of potato salad sold at a store.

POTATO SALAD

| Size | Weight (pounds) |
| :--- | :---: |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and Seth purchased 2 extra large containers of potato salad. What is the difference in the weights, in pounds, of Kim's and Seth's purchases?

Show your work.




## Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. The weight of Kim's purchase is correctly calculated. Although the work contains the correct value for Seth's purchase, calculations are not shown to support this answer and another incorrect answer is provided ( $1^{2} / 8$ ) with limited work to support it. This incorrect result is used to determine the difference in the weights. The response addresses some elements of the task correctly but reaches an inadequate solution due to faulty and incomplete reasoning.

## GUIDE PAPER 9

54
The table below shows the sizes and weights of containers of potato salad sold at a store.

POTATO SALAD

| Size | Weight (pounds) |
| :--- | :---: |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\cdot \frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and Seth purchased 2 extra large containers of potato salad. What is the difference in the weights, in pounds, of Kim's and Seth's purchases?

Show your work.

$1 \frac{4}{8} \quad \frac{4}{8} \quad \frac{6}{8}+\frac{6}{8}=\frac{12}{8}$


## Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. The weight of Kim's purchase is correctly calculated. The weight of Seth's purchase is not addressed, and an incorrect solution is provided for the difference in weights with no work to support the solution. The response addresses some elements of the task correctly but reaches an inadequate solution due to faulty and incomplete reasoning.

## GUIDE PAPER 10

54 The table below shows the sizes and weights of containers of potato salad sold at a store.

POTATO SALAD

| Size | Weight (pounds) |
| :---: | :---: |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and Seth purchased 2 extra large containers of potato salad. What is the difference in the weights, in pounds, of Kim's and Seth's purchases?


Answer 42 pounds

## Score Point 0 (out of 3 points)

Holistically, this response is not sufficient to demonstrate even a limited understanding of the mathematical concepts in the task. Although a correct value for Kim's purchase is shown, no work is provided to support this answer. The weight of Seth's purchase is incorrect, and it is not clear how the answer is obtained. The difference in the numerators of fractions is provided as the solution.

The table below shows the sizes and weights of containers of potato salad sold at a store.

POTATO SALAD

| Size | Weight (pounds) |
| :--- | :---: |
| Small | $\frac{2}{8}$ |
| Medium | $\frac{3}{8}$ |
| Large | $\frac{6}{8}$ |
| Extra Large | $\frac{9}{8}$ |

Kim purchased 6 small containers of potato salad and_Seth-purchased-2-extra large containers of potato salad. What is the difference in the weights, in pounds, of Rim's and Seth's purchases?

Show your work.


Answer
 pounds

## 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 a correct solution is provided, it is not clear how it is obtained. The work is irrelevant.

55 Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs \$2. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

Show your work.

Answer \$ $\qquad$

## EXEMPLARY RESPONSE

55 Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs $\$ 2$. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

Show your work.
$\mathrm{f}=\$ 2$
$\mathrm{n}=4 \times \mathrm{f}=4 \times 2=\$ 8$
$\mathrm{p}=\mathrm{n} \div 2=8 \div 2=\$ 4$ or
$\mathrm{p}=\mathrm{f} \times 2=2 \times 2=\$ 4$

Cost $=\mathrm{f}+\mathrm{p}+\mathrm{n}=2+4+8=\$ 14$

Or other valid process

Answer \$ 14

55 Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs $\$ 2$. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

Show your work.
notebooks: $\$ 8$

$8 \div 2=4$

Folders: 52

Answer \$ 14

## Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The costs of supplies are correctly calculated and added to determine the total cost. The response is complete and correct.

## GUIDE PAPER 2

55
Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs $\$ 2$. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

Show your work.


Answer $\$ \mid 4$

## Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The costs of supplies are correctly calculated and added to determine the total cost. The response is complete and correct.

## GUIDE PAPER 3

55
Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs $\$ 2$. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

Show your work.


Answer $\$ 14$

## Score Point 3 (out of 3 points)

This response demonstrates a thorough understanding of the mathematical concepts in the task. The costs of supplies are correctly calculated and added to determine the total cost. The response contains sufficient mathematical work to receive full credit.

## GUIDE PAPER 4

Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs $\$ 2$. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

Show your work.


Answers 2G.Oリ

## Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The cost of a notebook is correctly calculated; however, the result is multiplied rather than divided by 2 to determine the cost of pencils. Individual costs are correctly added to determine the total cost. The response appropriately addresses most, but not all aspects of the task and reflects some minor misunderstanding of the underlying mathematical procedures.

## GUIDE PAPER 5

55
Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs $\$ 2$. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

## Show your work.


$4 \times 2=8$

Answer $\$ 12$

## Score Point 2 (out of $\mathbf{3}$ points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The cost of a notebook is correctly calculated; however, the cost of pencils is incorrect and no work is provided to show how it is obtained. Individual costs are correctly added to determine the total cost. The response appropriately addresses most but not all aspects of the task.

## GUIDE PAPER 6

55 Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs $\$ 2$. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

Show your work.
$\begin{array}{ll}\frac{p}{54} \frac{N}{52} & N \\ 98 & 4 \times 2=8 \\ 8 \div 2=4\end{array}$


Answers 64

## Score Point 2 (out of 3 points)

This response demonstrates a partial understanding of the mathematical concepts in the task. The costs of supplies are correctly calculated; however, the answers are multiplied rather than added to determine the total cost. The response appropriately addresses most, but not all aspects of the task.

GUIDE PAPER 7
55
Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs $\$ 2$. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

Show your work.


Answer \$ 32

Score Point 1 (out of 3 points)
This response demonstrates only a limited understanding of the mathematical concepts in the task. The cost of a notebook is correctly calculated; however, the result is multiplied rather than divided by 2 to determine the cost of pencils. Additionally, the work reflects a lack of understanding of how to determine the total cost of supplies. The response addresses some elements of the task correctly but reaches an inadequate solution due to faulty reasoning.

55 Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs $\$ 2$. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

Show your work.

$$
4 \times 2=8 \times 2=16 \$
$$

Answers 16 $\qquad$

## Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. Only the cost of a notebook is correctly calculated. The response addresses some elements of the task correctly but reaches an inadequate solution due to faulty and incomplete reasoning.

## GUIDE PAPER 9

55 Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs \$2. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

Show your work.

$$
\begin{array}{r}
\frac{2}{+4} \\
+38
\end{array} \text { notebook }
$$

Id dort Know!

Answer \$

## Score Point 1 (out of 3 points)

This response demonstrates only a limited understanding of the mathematical concepts in the task. The cost of a notebook is correctly calculated; however, no other work is provided. The response addresses some elements of the task correctly but reflects a lack of essential understanding of the underlying mathematical concepts.

## GUIDE PAPER 10

55
Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs $\$ 2$. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

Show your work.


- Anotebookcostsztimes as much as a set of pencils - The total cost for lifolder I notebook, and 14 set of pencil


Answer sill.

## 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 irrelevant and does not address the task.

## GUIDE PAPER 11

Additional
55 Bill is shopping for folders, notebooks, and pencils for the first day of school. A notebook costs 4 times as much as a folder. A notebook costs 2 times as much as a set of pencils. Each folder costs $\$ 2$. Determine the total cost for 1 folder, 1 notebook, and 1 set of pencils.

Show your work.


Answers $1 q$

## 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 numbers are correctly added, the costs are incorrect and no work is provided to show how the costs are obtained.

