

Mathematics

## Scoring Guide for Sample Test 2005



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Strand and Performance Indicator Map with Answer Key

| Grade 5, Book 1 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Question | Type | Points | Strand | Content Performance Indicator | Answer Кеу |
| 1 | Multiple Choice | 1 | Measurement | 5.M. 5 | B |
| 2 | Multiple Choice | 1 | Measurement | 5.M. 8 | J |
| 3 | Multiple Choice | 1 | Number Sense and Operations | 5.N. 8 | C |
| 4 | Multiple Choice | 1 | Number Sense and Operations | 5.N. 10 | F |
| 5 | Multiple Choice | 1 | Geometry | 5.G. 1 | D |
| 6 | Multiple Choice | 1 | Statistics and Probability | 4.S. 4 | H |
| 7 | Multiple Choice | 1 | Number Sense and Operations | 5.N. 11 | D |
| 8 | Multiple Choice | 1 | Geometry | 5.G. 7 | G |
| 9 | Multiple Choice | 1 | Number Sense and Operations | 5.N. 18 | D |
| 10 | Multiple Choice | 1 | Algebra | 5.A. 7 | J |
| 11 | Multiple Choice | 1 | Number Sense and Operations | 5.N. 9 | C |
| 12 | Multiple Choice | 1 | Number Sense and Operations | 5.N. 21 | J |
| 13 | Multiple Choice | 1 | Geometry | 5.G. 8 | C |
| 14 | Multiple Choice | 1 | Number Sense and Operations | 4.N. 8 | F |
| 15 | Multiple Choice | 1 | Measurement | 5.M. 8 | A |
| 16 | Multiple Choice | 1 | Geometry | 5.G. 10 | H |
| 17 | Multiple Choice | 1 | Algebra | 5.A. 8 | D |
| 18 | Multiple Choice | 1 | Geometry | 5.G. 5 | J |
| 19 | Multiple Choice | 1 | Measurement | 5.M. 1 | C |
| 20 | Multiple Choice | 1 | Number Sense and Operations | 5.N. 17 | H |
| 21 | Multiple Choice | 1 | Statistics and Probability | 5.S. 3 | C |
| 22 | Multiple Choice | 1 | Number Sense and Operations | 5.N. 3 | G |
| 23 | Multiple Choice | 1 | Statistics and Probability | 5.S. 2 | B |
| 24 | Multiple Choice | 1 | Algebra | 5.A. 6 | H |
| 25 | Multiple Choice | 1 | Number Sense and Operations | 5.N. 7 | A |
| 26 | Multiple Choice | 1 | Geometry | 5.G. 9 | J |

Strand and Performance Indicator Map with Answer Key

| Grade 5, Book 2 |  |  |  |  |  |  |
| :---: | :--- | :---: | :--- | :---: | :---: | :---: |
| Question | Type | Points | Strand | Content <br> Performance <br> Indicator | Answer <br> Key |  |
| 27 | Short Response | 2 | Number Sense and <br> Operations | $5 . N .22$ | $\mathrm{n} / \mathrm{a}$ |  |
| 28 | Extended Response | 3 | Statistics and Probability | $5 . S .2$ | $\mathrm{n} / \mathrm{a}$ |  |
| 29 | Short Response | 2 | Measurement | $5 . \mathrm{M} .3$ | $\mathrm{n} / \mathrm{a}$ |  |
| 30 | Extended Response | 3 | Geometry | $5 . \mathrm{G} .4$ | $\mathrm{n} / \mathrm{a}$ |  |
| 31 | Short Response | 2 | Measurement | $5 . \mathrm{M} .8$ | $\mathrm{n} / \mathrm{a}$ |  |
| 32 | Extended Response | 3 | Number Sense and <br> Operations | $5 . \mathrm{N} .8$ | $\mathrm{n} / \mathrm{a}$ |  |
| 33 | Short Response | 2 | Algebra | $4 . \mathrm{A} .2$ | $\mathrm{n} / \mathrm{a}$ |  |
| 34 | Extended Response | 3 | Number Sense and <br> Operations | $5 . N .26$ | $\mathrm{n} / \mathrm{a}$ |  |

## 2-Point Holistic Rubric

Score Points:

| 2 Points | A two-point response is complete and correct. <br> This response <br> - demonstrates a thorough understanding of the mathematical concepts and/or procedures embodied in the task <br> - indicates that the student has completed the task correctly, using mathematically sound procedures <br> - contains clear, complete explanations and/or adequate work when required |
| :---: | :---: |
| 1 Point | A one-point response is only partially correct. <br> This response <br> - indicates that the student has demonstrated only a partial understanding of the mathematical concepts and/or procedures embodied in the task <br> - addresses some elements of the task correctly but may be incomplete or contain some procedural or conceptual flaws <br> - may contain an incorrect solution but applies a mathematically appropriate process <br> - may contain a correct numerical answer but required work is not provided |
| 0 Points | A zero-point response is incorrect, irrelevant, incoherent, or contains a correct response arrived at using an obviously incorrect procedure. Although some parts 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

Condition Code A is applied whenever a student who is present for a test session leaves an entire open-ended item in that session blank (no response).

## 3-Point Holistic Rubric

Score Points:
$\left.\begin{array}{|l|l|}\hline 3 \text { Points } & \begin{array}{l}\text { A three-point response is complete and correct. } \\ \text { This response }\end{array} \\ \text { - demonstrates a thorough understanding of the mathematical concepts } \\ \text { and/or procedures embodied in the task } \\ \text { - indicates that the student has completed the task correctly, using } \\ \text { mathematically sound procedures }\end{array}\right\}$

## Scoring Policies for Mathematics

1. If the question does not specifically direct students to show their work, teachers may not score any work that the student shows.
2. If the student does the work in other than a designated "Show your work" area, that work may still be scored.
3. 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.
4. If the question requires students to show their work, and a student shows appropriate work and arrives at the correct answer but writes an incorrect answer in the answer blank, the student may not receive full credit.
5. If the student provides one legible response (and one response only), teachers 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, teachers should score only the response that has not been crossed out.
7. For questions in which students use a trial-and-error (guess-and-check) process, evidence of three rounds of trial-and-error must be present for the student to receive credit for the process. Trial-and-error items are not subject to Scoring Policy \#6, 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 student should not be penalized more than once.
9. In questions that provide ruled lines for the students to write an explanation of their work, mathematical work shown elsewhere on the page may be considered and scored if, and only if, the student explicitly points to the work as part of the answer.
10. Responses containing a conceptual error may not receive more than fifty percent of the maximum score.
11. In all questions that provide a response space for one numerical answer and require work to be shown, if the correct numerical answer is provided but no work is shown, the score is 1 .
12. In all questions that provide response spaces for two numerical answers and require work to be shown for both parts, if one correct numerical answer is provided but no work is shown in either part, the score is 0 . If two correct numerical answers are provided but no work is shown in either part, the score is 1 .
13. In all 3-point questions that provide response spaces for two numerical answers and require work to be shown in one part, if two correct numerical answers are provided but no work is shown, the score is 2 .

## Content-Specific Scoring Clarifications for Mathematics Tests

1. All necessary signs of operation should be present for work to be considered mathematically complete and correct. If signs of operation in the work shown are missing and it is absolutely clear and apparent in the student's work which operation is being used, and all other work required is correct, the student should receive full credit.
2. In questions that require students to provide bar graphs, touching bars are acceptable only at Grades 3 and 4.
3. If the question asks the student to provide an expression and the student provides an equation, this is an acceptable response at Grades 3 and 4 only.

For additional clarification, see the web site http://www.emsc.nysed.gov/ciai/mst/instructrec.htm.

Sherise jogs three days each week. The table below shows how far she jogs each day.

## SHERISE'S JOGGING LOG

| Day | Distance <br> (in miles) |
| :---: | :---: |
| 1 | $5 \frac{3}{10}$ |
| 2 | $4 \frac{1}{10}$ |
| 3 | $6 \frac{3}{10}$ |

## Part A

What is the total distance, in miles, that Sherise jogs each week?
Show your work.

Answer $\qquad$ miles

## Part B

Each week, Reggie jogs $3 \frac{4}{10}$ fewer miles than Sherise. What is the total distance, in miles, that Reggie jogs?

Show your work.

Answer $\qquad$ miles

## Question 27

## Strand 1: Number Sense And Operations

## Complete and Correct Response:

## Part A

- $5 \frac{3}{10}$
$4 \frac{1}{10}$
$+6 \frac{3}{10}$
$15 \frac{7}{10}$
OR other valid response


## AND

- $15 \frac{7}{10}$ (miles), or 15.7 (miles)


## Part B

- $15 \frac{7}{10}$
$-\quad 3 \frac{4}{10}$
$12 \frac{3}{10}$
OR other valid response
AND
- $12 \frac{3}{10}$ (miles), or 12.3 (miles)


## Score Points:

Apply 2-point holistic rubric.

27 Sherise jogs three days each week. The table below shows how far she jogs each day. SHERISE'S JOGGING LOG

| Day | Distance <br> (in miles) |
| :---: | :---: |
| 1 | $5 \frac{3}{10}$ |
| 2 | $4 \frac{1}{10}$ |
| 3 | $6 \frac{3}{10}$ |

## Part A

What is the total distance, in miles, that Sherise jogs each week?
Show your work.

$$
5 \frac{3}{10}+4 \frac{1}{10}+6 \frac{3}{10}=15 \frac{7}{10}
$$

Answer $15 \frac{7}{10}$ miles

## Part B

Each week, Reggie jogs $3 \frac{4}{10}$ fewer miles than Sherise. What is the total distance, in miles, that Reggie jogs?

Show your work.

$$
15 \frac{7}{10}-3 \frac{4}{10}=12 \frac{3}{10}
$$

Answer $12 \frac{3}{10}$ miles

This response is complete and correct.

27 Sherise jogs three days each week. The table below shows how far she jogs each day.
SHERISE'S JOGGING LOG

| Day | Distance <br> (in miles) |
| :---: | :---: |
| 1 | $5 \frac{3}{10}$ |
| 2 | $4 \frac{1}{10}$ |
| 3 | $6 \frac{3}{10}$ |

What is the total distance, in miles, that Sherise jogs each week?


## Part B

Each week, Reggie jogs $3 \frac{4}{10}$ fewer miles than Sherise. What is the total distance, in miles, that Reggie jogs?

Show your work.


This response contains an incorrect solution but applies a mathematically appropriate process. Addition is displayed in Part A and subtraction is displayed in Part B, demonstrating an understanding of the process required to solve the problem; however, the addition error in Part A leads to two incorrect answers.

## Score Point - 1

Sherise jogs three days each week. The table below shows how far she jogs each day.
SHERISE'S JOGGING LOG

| Day | Distance <br> (in miles) |
| :---: | :---: |
| 1 | $5 \frac{3}{10}$ |
| 2 | $4 \frac{1}{10}$ |
| 3 | $6 \frac{3}{10}$ |

## Part A

What is the total distance, in miles, that Sherise jogs each week?
Show your work.



## Part B

Each week, Reggie jogs $3 \frac{4}{10}$ fewer miles than Sherise. What is the total distance, in miles, that Reggie jogs?

Show your work.

$$
3 \frac{4}{10}-\frac{7}{10}=3 \frac{2}{10}
$$

Answer
 miles.

This response is incorrect. Although some procedures have been set up correctly, holistically it is not sufficient to demonstrate even a limited understanding of the mathematical concepts embodied in the task.

## Score Point - 0

Juanita sold school concert tickets from 1:00 p.m. to 5:00 p.m. The table below shows the total number of tickets she had sold at the beginning of each hour.

SALES CHART

| Time | Tickets <br> Sold |
| :---: | :---: |
| $1: 00$ | 0 |
| $2: 00$ | 27 |
| $3: 00$ | 34 |
| $4: 00$ | 45 |
| $5: 00$ | 60 | the total ticket sales for each hour.

Be sure to

- title the graph
- label both axes
- graph all the data
- provide a scale for the graph

SALES CHART

| Time | Tickets <br> Sold |
| :---: | :---: |
| $1: 00$ | 0 |
| $2: 00$ | 27 |
| $3: 00$ | 34 |
| $4: 00$ | 45 |
| $5: 00$ | 60 |



Between which two hours were the most tickets sold?

Answer $\qquad$

Strand 5: Statistics And Probability

Complete and Correct Response:


OR


OR other valid response
AND

- 1:00 and 2:00


## Score Points:

Apply 3-point holistic rubric.

Use the data from the table to make a line graph showing the total ticket sales for each hour.

Be sure to
Title the graph
Mabel both axes
-graph all the data
provide a scale for the graph


Between which two hours were the most tickets sold?
Answer Betujepn 1+2.

This response demonstrates a thorough understanding of the mathematical concepts embodied in the task. The graph begins at 1:00; therefore, the space before 1:00 does not need to be consistent with the spaces between the other numbers on the $x$-axis.

## Score Point - 3

 the total ticket sales for each hour.Be sure to

- title the graph
- label both axes
- graph all the data
- provide a scale for the graph


SALES CHART

| Time | Tickets <br> Sold |
| :---: | :---: |
| $1: 00$ | 0 |
| $2: 00$ | 27 |
| $3: 00$ | 34 |
| $4: 00$ | 45 |
| $5: 00$ | 60 |

time
Between which two hours were the most tickets sold?
Answer $5 ; 00,4 ; 00$

This response demonstrates a partial understanding of the mathematical concepts embodied in the task. The graph is complete and correct; however, incorrect times are given on the answer line.

## Score Point - 2

Use the data from the table to make a line graph showing the total ticket sales for each hour.

Be sure to

- title the graph
- label both axes
- graph all the data
- provide a scale for the graph


The Hours Tickets Were Sold
Between which two hours were the most tickets sold?
Answer 2.00 PM

This response demonstrates a limited understanding of the mathematical concepts embodied in the task. The answer, "Between 1:00 p.m. and 2:00 p.m." is a correct response. However, a complete bar graph and not a line graph is drawn, indicating a conceptual error.

## Score Point - 1

 the total ticket sales for each hour.Be sure to

- title the graph
- label both axes
- graph all the data
- provide a scale for the graph

SALES CHART

| Time | Tickets <br> Sold |
| :---: | :---: |
| $1: 00$ | 0 |
| $2: 00$ | 27 |
| $3: 00$ | 34 |
| $4: 00$ | 45 |
| $5: 00$ | 60 |



Between which two hours were the most tickets sold?
Answer 4:00

This response is completely incorrect.

## Score Point - 0

Use your ruler to help you solve this problem.
Measure the sides of the shape below to the nearest centimeter. Label the length of each side.


What is the perimeter of the shape?

Answer $\qquad$ centimeters

## Strand 4: Measurement

Complete and Correct Response:


OR other valid response
AND

- 24 (centimeters)


## Score Points:

Apply 2-point holistic rubric.

Use your ruler to help you solve this problem.
Measure the sides of the shape below to the nearest centimeter. Label the length of each side.


What is the perimeter of the shape?


This response is complete and correct.

Use your ruler to help you solve this problem.
Measure the sides of the shape below to the nearest centimeter. Label the length of each side.


What is the perimeter of the shape?


This response is partially correct. The shape's sides are not labeled, but the correct perimeter is given.

## Score Point - 1

## Use your ruler to help you solve this problem.

Measure the sides of the shape below to the nearest centimeter. Label the length of each side.


What is the perimeter of the shape?


This response is completely incorrect.


A


D


B


E


C


F

## Part A

Which quadrilaterals have 2 pairs of parallel sides?

Answer $\qquad$

## Part B

What is the name for the set of quadrilaterals with 2 pairs of parallel sides?

## Answer

$\qquad$

## Part C

What is the name for the set of quadrilaterals with 2 pairs of right angles?

Answer $\qquad$

## Strand 3: Geometry

## Complete and Correct Response:

## Part A

- A, B, F


## Part B

- parallelograms


## Part C

- rectangles


## Score Points:

Apply 3-point holistic rubric.

30 Some of the quadrilaterals below have parallel sides.

A


D


B


E


C


F

## Part A

Which quadrilaterals have 2 pairs of parallel sides?


Part $B$
What is the name for the set of quadrilaterals with 2 pairs of parallel sides?


## Part C

What is the name for the set of quadrilaterals with 2 pairs of right angles?


All three responses are complete and correct.

## Score Point - 3

30 Some of the quadrilaterals below have parallel sides.

A


D


B


E


C


F

## Part A

Which quadrilaterals have 2 pairs of parallel sides?


## Part B

What is the name for the set of quadrilaterals with 2 pairs of parallel sides?


## Part C

What is the name for the set of quadrilaterals with 2 pairs of right angles?


This response demonstrates a partial understanding of the mathematical concepts embodied in the task. The responses in Part A and Part B are correct; however, Part C is incorrect.

## Score Point - 2

30 Some of the quadrilaterals below have parallel sides.

A

D

B

E

C

F

## Part A

Which quadrilaterals have 2 pairs of parallel sides?


## Part B

What is the name for the set of quadrilaterals with 2 pairs of parallel sides?


## Part C

What is the name for the set of quadrilaterals with 2 pairs of riqht anales?


This response demonstrates only a partial understanding of the mathematical concepts embodied in the task. Although the answer to Part B is correct, the response to Part A is incomplete, and Part C is incorrect.

## Score Point - 1

Some of the quadrilaterals below have parallel sides.


A


D


B


E


C


F

## Part A

Which quadrilaterals have 2 pairs of parallel sides?


## Part $B$

What is the name for the set of quadrilaterals with 2 pairs of parallel sides?
answer rohmhus

## Part C

What is the name for the set of quadrilaterals with 2 pairs of right angles?

Answer


This response is completely incorrect. Incorrect answers are provided for all three parts.

## Score Point - 0

Use your protractor to help you solve this problem.

In the space below, draw an angle that measures $50^{\circ}$.

What type of angle did you draw?

## Answer

## Question 31

## Strand 4: Measurement

## Complete and Correct Response:



OR other valid response (range of angles drawn + or $-5^{\circ}$ to the angle above)
AND

- acute


## Score Points:

Apply 2-point holistic rubric.

Use your protractor to help you solve this problem.

In the space below, draw an angle that measures $50^{\circ}$.


What type of angle did you draw?


This response is complete and correct. Use your protractor to help you solve this problem.

In the space below, draw an angle that measures $50^{\circ}$.


What type of angle did you draw?


This response demonstrates a partial understanding of the mathematical concepts embodied in the task. The angle is drawn correctly but it is incorrectly identified as a right angle.

## Score Point - 1

Use your protractor to help you solve this problem.

In the space below, draw an angle that measures $50^{\circ}$.


What type of angle did you draw?


This response is completely incorrect.

## Part A

On the grids below, shade the correct number of squares to represent the decimal 1.47.


## Part $B$

On the line below, write the following decimals in order from least to greatest.
1.74
1.47
1.7

Answer

## Strand 1: Number Sense And Operations

Complete and Correct Response:

## Part A



OR other valid response

## Part B

- $1.47,1.7,1.74$

OR other valid response

Score Points:

Apply 3-point holistic rubric.

Part A
On the grids below, shade the correct number of squares to represent the decimal 1.47.

```
Each grid = 1 whole
```



## Part $B$

On the line below, write the following decimals in order from least to greatest.

$$
\begin{array}{lll}
1.74 & 1.47 & 1.7
\end{array}
$$



Parts A and B are complete and correct.

## Score Point - 3

## Part A

On the grids below, shade the correct number of squares to represent the decimal 1.47.

$$
\text { Each grid = } 1 \text { whole }
$$



## Part $B$

On the line below, write the following decimals in order from least to greatest.


This response demonstrates a partial understanding of the mathematical concepts embodied in the task. The incorrect number of squares is shaded in Part A; however, the decimals are placed in the correct order in Part B.

## Score Point - 2

## Part A

On the grids below, shade the correct number of squares to represent the decimal 1.47.

$$
\text { Each grid = } 1 \text { whole }
$$



## Part B

On the line below, write the following decimals in order from least to greatest.

$$
\begin{array}{lll}
1.74 & 1.47 & 1.7
\end{array}
$$



This response demonstrates a limited understanding of the mathematical concepts embodied in the task. The shading in Part A is correct while the order of the decimals in Part B is incorrect.

## Score Point - 1

## Part A

On the grids below, shade the correct number of squares to represent the decimal 1.47.

Each grid = 1 whole


## Part B

On the line below, write the following decimals in order from least to greatest.

| 1.74 | 1.47 | 1.7 |
| :--- | :--- | :--- |

Answer $1.7,1.47,1.74$

This response is completely incorrect.

## Score Point - 0

The points on the number line below show the positions of four fractions.


Fill in each box on the number line with the correct fraction below.

$$
\frac{1}{2} \quad \frac{1}{10} \quad \frac{1}{5} \quad \frac{1}{3}
$$

On the lines below, explain how you decided where to place the fractions.

## Strand 2: Algebra

Complete and Correct Response:


AND

- I found the least common denominator, which turned out to be 30. Then I compared the fractions from least to greatest.
$\frac{1}{2}=\frac{15}{30}, \frac{1}{10}=\frac{3}{30}, \frac{1}{5}=\frac{6}{30}, \frac{1}{3}=\frac{10}{30}$
so $\frac{1}{10}<\frac{1}{5}<\frac{1}{3}<\frac{1}{2}$
OR
I looked at the numerators, and they were all the same. I put the fractions in order by denominators with the largest denominator first.

OR other valid response

Score Points:

Apply 2-point holistic rubric.

33 The points on the number line below show the positions of four fractions.


Fill in each box on the number line with the correct fraction below.

$$
\frac{1}{2} \quad \frac{1}{10} \quad \frac{1}{5} \quad \frac{1}{3}
$$



On the lines below, explain how you decided where to place the fractions.

biggest shaded fraction.
I brew that $\frac{1}{10}$ would come
first cause its the smallest
I also new that $\frac{1}{2}$ would
come last cause its
the biggest.

This response is complete and correct. Note that the work shown does not influence the scoring of the response, as showing work is not required.

Score Point - 2

The points on the number line below show the positions of four fractions.


Fill in each box on the number line with the correct fraction below.

$$
\frac{1}{2} \quad \frac{1}{10} \quad \frac{1}{5} \quad \frac{1}{3}
$$

On the lines below, explain how you decided where to place the fractions.


This response demonstrates a partial understanding of the mathematical procedures embodied in the question. The fractions are placed correctly on the number line; however, the explanation is only partially correct. The explanation correctly states "the bigger the denomentor the smaller the pieace," but incorrect information is also provided in the statement, "the smaller the numerter the bigger the peice."

## Score Point - 1

The points on the number line below show the positions of four fractions.


Fill in each box on the number line with the correct fraction below.

$$
\frac{1}{2} \quad \frac{1}{10} \quad \frac{1}{5} \quad \frac{1}{3}
$$

On the lines below, explain how you decided where to place the fractions.
$\qquad$ to least

This response is incorrect. Listing the fractions in "order from greatest to least" is an incorrect strategy for placing the fractions on the number line.

## Score Point - 0

 total number of baskets of apples each student picked.
## BASKETS OF APPLES

| Student | Number <br> of Baskets |
| :--- | :---: |
| Marie | 4.25 |
| Sarah | 3.75 |
| Lance | 5.5 |

## Part A

About how many total baskets of apples did the students pick?
Estimate ______ baskets

On the lines below, explain how you estimated the total number of baskets.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Part B

Each of Lance's baskets contained 19 apples. About how many total apples did Lance pick?

Estimate $\qquad$ apples

## Strand 1: Number Sense And Operations

## Complete and Correct Response:

Part A

- 14 (baskets)

OR other valid response (NOTE: Students may round up and / or down for their initial estimations.)

## AND

- I rounded each decimal to the nearest whole number. For example, 4.25 rounds down to $4,3.75$ rounds up to 4 , and 5.5 rounds up to 6 . Then I added to find the total number of baskets $(4+4+6=14)$.

OR other valid response

## Part B

- $5.5 \times 20=110$

110 (apples)

OR
$6 \times 19=114$
114 (apples)

OR
$6 \times 20=120$
120 (apples)

OR other valid response

## Score Points:

Apply 3-point holistic rubric.

Last Saturday, three students picked apples at an orchard. The table below shows the total number of baskets of apples each student picked.

BASKETS OF APPLES

| Student | Number <br> of Baskets |
| :--- | ---: |
| Marie | $4 \sqrt{2} \rightarrow$ |
| Sarah | $3.85 \rightarrow$ |
| Lance | $5.5 \rightarrow$ |

## Part A

$$
\begin{array}{r}
4.00 \\
+4.00 \\
6.00 \\
\hline 14.00
\end{array}
$$



About how many total baskets of apples did the students pick?
Estimate $\qquad$ baskets

On the lines below, explain how you estimated the total number of baskets.


## Part :

Each of Lance's baskets contained 19 apples. About how many total apples did Lance pick?
Estimate 114 apples

This response is complete and correct.

## Score Point - 3

 total number of baskets of apples each student picked.
## BASKETS OF APPLES

| Student | Number <br> of Baskets |
| :--- | :---: |
| Marie | 4.25 |
| Sarah | 3.75 |
| Lance | 5.5 |

## Part A

About how many total baskets of apples did the students pick?
Estimate $\qquad$ baskets

On the lines below, explain how you estimated the total number of baskets.


## Part

Each of Lance's baskets contained 19 apples. About how many total apples did Lance pick?
Estimate 114 apples

This response demonstrates a partial understanding of the mathematical procedures embodied in the task. Both correct numerical answers are provided; however, the explanation in Part A reflects some misunderstanding of the estimation process. Rounding is used at the end of the addition process, which is not acceptable for estimation.

## Score Point - 2

Last Saturday, three students picked apples at an orchard. The table below shows the total number of baskets of apples each student picked.

BASKETS OF APPLES

| Student | Number <br> of Baskets |
| :--- | :---: |
| Marie | 4.25 |
| Sarah | 3.75 |
| Lance | 5.5 |

## Part A

About how many total baskets of apples did the students pick?
Estimate

$$
6,0,4,00,4,00
$$

On the lines below, explain how you estimated the total number of baskets.
I remembered in class that in math class that when you estimate 50 or higher go's to the next whole number and It it's lower than 50 you go luck to the same whole number.

## Part $B$

Each of Lance's baskets contained 19 apples. About how many total apples did Lance pick?
Estimate $\qquad$ apples

This response is incomplete. In Part A, the response correctly rounds each given number. However, the total is not provided and Part B is incorrect.

## Score Point - 1

Last Saturday, three students picked apples at an orchard. The table below shows the total number of baskets of apples each student picked.

BASKETS OF APPLES

| Student | Number <br> of Baskets |
| :--- | :---: |
| Marie | 4.25 |
| Sarah | 3.75 |
| Lance | 5.5 |



## Part A

About how many total baskets of apples did the students pick?
Estimate 12.40 baskets

On the lines below, explain how you estimated the total number of baskets.

$\qquad$
$\qquad$

## Part $B$

Each of Lance's baskets contained 19 apples. About how many total apples did Lance pick?

$$
\text { Estimate } 104.5 \text { apples }
$$

This response is completely incorrect.

## Score Point - 0



Grade 5
Mathematics
Scoring Guide Sample Test 2005

