PSSA, Grade 3 Math

Mr. Hodge’s Books

Handscoring
Anchor Set
1. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

**USE two** of the three following symbols: +, >, <.

**PUT** your answers in the **BLANKS BELOW**.

Answer: 74 ___ 46 ___ 38
1. **Continued.** Please refer to the previous page for task explanation.

   Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

   **C.** How many books could the class have read on Wednesday?

   PUT your answer in the BLANK BELOW.

   SHOW or EXPLAIN all your work.

   Answer: ________ books
Grade 3 Math
Mr. Hodge's Books

Assessment Anchor this item will be reported under:
M03.B-O.3 Solve problems involving the four operations, and identify and explain patterns in arithmetic.

Specific Anchor Descriptor addressed by this item:
M03.B-O.3.1 Use operations, patterns, and estimation strategies to solve problems (may include word problems).

Scoring Guide:

<table>
<thead>
<tr>
<th>Score</th>
<th>In this item, the student –</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Demonstrates a thorough understanding of solving problems involving the four operations, and identifying and explaining patterns in arithmetic by correctly solving problems and clearly explaining procedures.</td>
</tr>
<tr>
<td>3</td>
<td>Demonstrates a general understanding of solving problems involving the four operations, and identifying and explaining patterns in arithmetic by correctly solving problems and clearly explaining procedures with only minor errors or omissions.</td>
</tr>
<tr>
<td>2</td>
<td>Demonstrates a partial understanding of solving problems involving the four operations, and identifying and explaining patterns in arithmetic by correctly performing a significant portion of the required task.</td>
</tr>
<tr>
<td>1</td>
<td>Demonstrates minimal understanding of solving problems involving the four operations, and identifying and explaining patterns in arithmetic.</td>
</tr>
<tr>
<td>0</td>
<td>The response has no correct answer and insufficient evidence to demonstrate any understanding of the mathematical concepts and procedures as required by the task. Response may show only information copied from the question.</td>
</tr>
</tbody>
</table>

Non-scorables
B – Blank, entirely erased or written refusal to respond
F – Foreign Language
K – Off-task
U – Unreadable

Top Scoring Student Response And Training Notes:

<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Student earns 4 points.</td>
</tr>
<tr>
<td>3</td>
<td>Student earns 3.0 – 3.5 points.</td>
</tr>
<tr>
<td>2</td>
<td>Student earns 2.0 – 2.5 points.</td>
</tr>
<tr>
<td>1</td>
<td>Student earns 0.5 - 1.5 points. OR Student demonstrates minimal understanding of solving problems involving the four operations, and identifying and explaining patterns in arithmetic.</td>
</tr>
<tr>
<td>0</td>
<td>Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.</td>
</tr>
</tbody>
</table>
A.

<table>
<thead>
<tr>
<th>What?</th>
<th>Why?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample Explanation: The student forgot to carry the one from 14 to the tens place.</td>
<td></td>
</tr>
</tbody>
</table>

(1 score point)

1 point for complete explanation
OR ½ point for correct but incomplete explanation

B.

<table>
<thead>
<tr>
<th>What?</th>
<th>Why?</th>
</tr>
</thead>
<tbody>
<tr>
<td>$74 &lt; 46 + 38$</td>
<td></td>
</tr>
</tbody>
</table>

(1 score point)

1 point for correct answer

C.

<table>
<thead>
<tr>
<th>What?</th>
<th>Why?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Answers may vary. Accept any odd number between 41 and 51.</td>
<td>Sample Work: $46 + 38 = 84$ $125 - 84 = 41$ $135 - 84 = 51$ 43</td>
</tr>
<tr>
<td>Sample Response: 43 (books)</td>
<td>OR Sample Explanation: First I found the total from Monday and Tuesday ($46 + 38 = 84$). Next I subtracted that number from $125$ ($125 - 84 = 41$) and from $135$ ($135 - 84 = 51$). Since 84 is even, I knew the answer had to be an odd number between 41 and 51, so I chose 43.</td>
</tr>
</tbody>
</table>

(2 score points)

1 point for correct answer
1 point for complete support
OR ½ point for correct but incomplete support
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74:

A. **EXPLAIN** the addition mistake this student could have made.

He added \(40 + 30 = 70\) which was right, but then he added \(8 + 6 = 4\) which is wrong. \(8 + 6 = 14\) because he added \(8 + 6 = 4\) he was off by 10.

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

*USE two of the three following symbols: +, >, <.*

*PUT your answers in the BLANKS BELOW.*

Answer: \(74 \not\geq 46 \not\geq 38\)

---

4  A. 1 point – complete explanation. The student includes specific information about the addition mistake.

   B. 1 point – correct answer.

   C. 2 points – correct answer (43) and complete support. The student adds to find the total number of books for Monday and Tuesday (84) and then finds the number of additional books needed to get to 127, an odd number between 125 and 135.
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

**PUT your answer in the BLANK BELOW.**

**SHOW or EXPLAIN all your work.**

\[
46 + 38 = 84
\]

\[
84 + 43 = 127 \text{ which is an odd number between 125 and 135}
\]

Answer: \underline{43} books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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<tr>
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<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>46</td>
<td>38</td>
<td>?</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

   The addition mistake the student could of made was when he was adding, he forgot to put a 1 on top of the 4.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

   USE two of the three following symbols: +, >, <.

   PUT your answers in the BLANKS BELOW.

   Answer: 74 < 46 + 38

4

A. 1 point – complete explanation. The student includes specific information about the addition mistake.

B. 1 point – correct answer.

C. 2 points – correct answer (43) and complete support. Note that either the work shown or the explanation is sufficient for complete support; both are not required.
Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

**SHOW** or **EXPLAIN** all your work.

\[
\begin{align*}
46 + 38 &= 84 \\
127 - 84 &= 43
\end{align*}
\]

First I added 46 and 38 together. Then I subtracted 127 because it was an odd number between 125 and 135 to get how many books Mr. Hodge's class could've read on Wednesday.

**Answer:** 43 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Books Read</td>
<td>46</td>
<td>38</td>
<td>?</td>
</tr>
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</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

I think **what** he **did** wrong

**was** that he **didn't** re **group**

to **84**.

---

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

**USE two** of the three following symbols: +, >, <.

**PUT** your answers in the **BLANKS BELOW**.

**Answer:** 74 ≤ 46 + 38

---

3

A. 0.5 point – correct but incomplete explanation. "...he didn't regroup to 84" lacks specific information about the addition mistake.

B. 1 point – correct answer.

C. 2 points – correct answer (49) and complete support. The student adds to find the total number of books for Monday and Tuesday (84) and then finds the number of additional books needed to get to 133, an odd number between 125 and 135.
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[
\frac{88}{84} + 6 = 90 \\
\text{odd and also in between}
\]

125 and 135!

Answer: \(49\) books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>46</td>
<td>38</td>
<td>?</td>
</tr>
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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

The mistake this student made was that they forgot to add the 10 from the 14, they got 14 by doing 6+8.

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

**USE** two of the three following symbols: +, >, <.

**PUT** your answers in the **BLANKS BELOW**.

Answer: 74 ≤ 46 + 38

3 A. 1 point – complete explanation. The student includes specific information about the addition mistake.

B. 1 point – correct answer.

C. 1.5 points – correct answer (43) and correct but incomplete support. The student does not show or explain how to get the total number of books for Monday and Tuesday (84), but then finds the number of additional books needed to get to 127, an odd number between 125 and 135.
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW. $\boxed{84 + 43 = 127}$

SHOW or EXPLAIN all your work.

Answer: $\boxed{127}$ books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

The addition mistake the student could have made was he forgot to carry the one.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74 + 38 ≥ 46 ≤ 38
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

**PUT your answer in the BLANK BELOW.**

**SHOW or EXPLAIN all your work.**

\[
\begin{array}{c}
489 - 84 - 84 - 84 - 84 = 115\,\text{books}
\end{array}
\]

I solved it by subtracting all the numbers between 125 and 135 and the answer to the problem was the answer to the question.

Answer: \(\frac{13}{2}, 15, 7, 4\) books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

The student didn't carry the ten and add it.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: $74 \underline{<} 46 \pm 38$

2
A. 1 point – complete explanation. The student includes specific information about the addition mistake.
B. 1 point – correct answer.
C. 0.5 point – incorrect answer (84), correct but incomplete support. The student has shown the first step, finding the total number of books for Monday and Tuesday.
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[
\begin{array}{c}
1 \\
46 \\
+38 \\
\hline
84
\end{array}
\]

Answer: 84 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

He forgot to add a ten.

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

**USE** two of the three following symbols: +, >, <.

**PUT** your answers in the BLANKS BELOW.

Answer: $74 \underline{<} 46 \underline{+} 38$

2 A. 1 point – complete explanation. The student includes specific information about the addition mistake.
B. 1 point – correct answer.
C. 0 points – incorrect answer (128) and incorrect support.
Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[128\] because it is a odd number between 125 and 135

Answer: \[128\] books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

```
He forgot to carry the 1.
```

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

**USE two** of the three following symbols: +, >, <.

**PUT** your answers in the **BLANKS BELOW**.

Answer: 74 \(< 46 + 38\)
Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[
\frac{46}{16} + \frac{5}{5} = \frac{51}{51}
\]

Answer: \( \boxed{51} \) books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

So he thought that

\[
40 + 30 = 70 \quad 8 + 6 = 14
\]

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

\[
74 \underline{7} 46 \underline{38}
\]

1 A. 0.5 point – correct but incomplete explanation. "40 + 30 = 70, 8 + 6 = 14" shows understanding but lacks specific information about the addition mistake.

B. 0 points – incorrect answer.

C. 0 points – incorrect answer (129) and incorrect support.
75. Continued. Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[
\begin{align*}
125 \text{ and } 135 & \text{ are even numbers. The odd number} \\
\text{in between them is } 129.
\end{align*}
\]

Answer: 129 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

   **forty six + thirty eight**

   **is eighty four**

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

   **USE** two of the three following symbols: +, >, <.

   **PUT** your answers in the BLANKS BELOW.

   Answer: 74 \( \text{ } \) 46 \( \text{ } \) 38

---

**Minimal 1**

A. 0 points – no information about the addition mistake is given.
B. 0 points – incorrect answer.
C. 0 points – incorrect answer (129) and incorrect support.

This response is awarded 1 point for demonstrating **MINIMAL UNDERSTANDING** in part A for correctly adding \( 46 + 38 = 84 \).
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

The class could have read **129** books.

Answer: **129** books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: $\geq$, $<$.

PUT your answers in the BLANKS BELOW.

Answer: $74 \geq 46 \geq 38$

Minimal 1

A. 0 points – incorrect explanation.
B. 0 points – incorrect answer.
C. 0 points – incorrect answer (131) and incorrect support.

This response is awarded 1 point for demonstrating MINIMAL UNDERSTANDING in part B for using 2 of the 3 given symbols to make a true number sentence, but it does not correctly compare the number 74 to the number of books read on Monday and Tuesday. Note that this point would not be awarded if a symbol other than those given is used or if a symbol is repeated, even if a true number sentence results.
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

**C.** How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[ 125 \ - 135 \]

Answer: \[ \underline{13} \] books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

On Monday can’t be 46. It has to be a lower number. Then 38 I will say and on Wednesday the number is 26.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74  \geq  46  \geq  38

0  A. 0 points – incorrect explanation.
   B. 0 points – incorrect answer.
   C. 0 points – incorrect answer (26) and incorrect support.

There is no demonstration of minimal understanding credit in this response.
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

My answer is _26_ because I:

- subtract 8 from each number and that's how I got my answer.

Answer: _26_ books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

The mistake the student made was he/she got 74 and the answer was 84 and I knew that because he/she didn't regroup.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: $74 \leq 46 + 38$
Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

I think they read 27 books because 7 is between 6 and 8 and on Monday they read 46 books and on Tuesday they read 38 books so 7 is in between.

Answer: 27 books.
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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<tbody>
<tr>
<td>Monday</td>
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<td>46</td>
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</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

The student could have added 40 + 30 and got 70 and added the 4 again.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74 ≤ 46 ± 38
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[
\begin{array}{c}
46 \\
+38 \\
\hline
84
\end{array}
\]

\[
\begin{array}{c}
\underline{12} \\
\underline{84} \\
\underline{-84} \\
\hline
43
\end{array}
\]

First I added 46 + 38 to get the amount of books read on Monday and Tuesday. Then I picked 127 which is what I wanted to be the total. Then I subtracted 84 from 127 to get the amount of books read on Wednesday.

Answer: 43 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below:

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<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

\[ \text{The mistake the student made was } \]
\[ \text{if } \text{they } \text{didn't regroup } \]
\[ \text{they } \text{would have } 84. \]

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

\[ \text{Use two of the following symbols: } +, >, <. } \]
\[ \text{PUT your answers in the BLANKS BELOW. } \]

Answer: 74 \[ \text{ } ] 46 \[ \text{ } ] 38
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

**PUT your answer in the BLANK BELOW.**

**SHOW or EXPLAIN** all your work,

\[
\begin{array}{c}
125 & 129 & 133 \\
126 & 130 & 134 \\
127 & 131 & 135 \\
128 & 132 & 133
\end{array}
\]

![Odd numbers]

Answer: **135** books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

They forgot to carry the 10 it should of been 84.

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the **BLANKS BELOW**.

Answer: 74 < 46 + 38
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

It has to be between... and I can't do 130 because it is even but if it's 129 it is odd and between both numbers.

Answer: 129 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

The mistake this student made was that he added 8 and 6, he got 14 which is write but it was over the ten so he just put the 4 which is write but he forget to carryover that ten so he didn't get 74.

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

**USE** two of the three following symbols: +, >, <.

**PUT** your answers in the **BLANKS BELOW**.

Answer: 74 ≤ 46 + 38
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[
\frac{16}{527} \quad \frac{43}{books}
\]

I got 43 books. First, I knew the number of books on Monday + number of books on Tuesday was 84 so I took that number and saw how many more books I needed to get to 127 so I could get my answer 43 books.

Answer: 43 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th>Number of Books Read</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>46</td>
<td>38</td>
<td>?</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

The addition mistake the student could of made was maybe he or she forgot to borrow and put the one you got from adding 6 plus 8 in the tens place to add.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74 ≤ 46 + 38
75.  *Continued.* Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

<table>
<thead>
<tr>
<th>Even</th>
<th>Odd</th>
</tr>
</thead>
<tbody>
<tr>
<td>126</td>
<td>127</td>
</tr>
<tr>
<td>128</td>
<td>129</td>
</tr>
<tr>
<td>130</td>
<td>131</td>
</tr>
<tr>
<td>132</td>
<td>133</td>
</tr>
<tr>
<td>134</td>
<td>135</td>
</tr>
</tbody>
</table>

Answer: 127 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74. 

A. EXPLAIN the addition mistake this student could have made.

He could have not carried

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74 _ 46 ? 38
Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

I think it could be 814 because you would add

Answer: 814 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

He made a mistake because when he was at 70 he added 4 and not 14.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: $74 \underline{<} 46 \underline{+} 38$
C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

The amount of books the class read on Wednesday is 43 books because if you add 43 to 78 it equals an odd number in between 125 and 135.

Answer: 43 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>46</td>
<td>38</td>
<td>?</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

The student didn't regroup.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74 + 46 > 38
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

**PUT your answer in the BLANK BELOW.**

**SHOW or EXPLAIN all your work.**

\[
\begin{align*}
133 & \quad + \quad 38 \\
\hline 
84 \\
084 & \quad - \quad 084 \\
\hline 
49 
\end{align*}
\]

**Answer:** 49 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>46</td>
<td>38</td>
<td>?</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

He has 79

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74 < 46 < 38
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

He has 10

Answer: 10 books
<table>
<thead>
<tr>
<th>Number</th>
<th>Score</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T1-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T1-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T1-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T1-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T1-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T1-7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T1-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T1-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T1-10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
This Page Intentionally Blank
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
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<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

He could have missed carrying the one.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74 \(\geq\) 46 \(\geq\) 38
Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW,

SHOW or EXPLAIN all your work.

I pictured a number between 125 and 135, and I added up 46

+ 38

74

Answer: 77 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

   The addition mistake could be when she added 6 and 8 and got 14. She put the 4 but forgot to carry the 1 over 4 in the tens place and got 7 not 8.

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

   USE two of the three following symbols: +, >, <.

   **PUT** your answers in the BLANKS BELOW.

Answer: $74 \neq 46 \geq 38$
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

**PUT your answer in the BLANK BELOW.**

<table>
<thead>
<tr>
<th>+0</th>
<th>94 + 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>104 + 10</td>
</tr>
<tr>
<td>30</td>
<td>114 + 10</td>
</tr>
<tr>
<td>40</td>
<td>124 + 10</td>
</tr>
<tr>
<td>41</td>
<td>125 + 1</td>
</tr>
<tr>
<td>42</td>
<td>126 + 1</td>
</tr>
<tr>
<td>43</td>
<td>127 + 1</td>
</tr>
</tbody>
</table>

43 books

Answer: _________ books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

   The addition mistake that this student could’ve made was that he/she forgot to regroup the 10. The real answer to that problem was 84 not 74.

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

   **USE** two of the three following symbols: +, >, <.

   **PUT** your answers in the BLANKS BELOW.

   Answer: $74 \leq 46 \neq 38$
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

**PUT your answer in the BLANK BELOW,**

**SHOW or EXPLAIN all your work.**

\[
\begin{align*}
46 + 38 & = 84 \\
\quad + 129 & = 213 \\
\quad + 84 & = 300 \\
\quad \frac{45}{129} & = 45 \\
\text{Check:} & = 45 \\
\text{45 books could have been read on Wednesday.}
\end{align*}
\]

Answer: \(45\) books.
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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<tbody>
<tr>
<td>Monday</td>
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<tr>
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</tbody>
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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

He forgot to carry the one.

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

*USE two of the three following symbols: +, >, <.*

*PUT your answers in the BLANKS BELOW.*

Answer: \(74 \geq 46 \geq 38\)
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the **BLANK BELOW**.

SHOW or EXPLAIN all your work.

\[
\text{I added what } 46+38 = \quad \text{and I got } 84.
\]

Answer: 84 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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<tr>
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</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

The mistake the student could have made was he forgot to regroup.

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74 ≤ 46 + 38
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

**C.** How many books could the class have read on Wednesday?

**PUT** your answer in the **BLANK BELOW**.

**SHOW** or **EXPLAIN** all your work.  

\[
\begin{align*}
1 & \quad 1 \\
+ & \quad 84 \\
\hline
132 & \quad 84
\end{align*}
\]

\[
\begin{align*}
+ & \quad 48 \\
\hline
131 & \quad 131 \text{ total books}
\end{align*}
\]

Answer: 417 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

They could of added wrong or put the wrong number.

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

**USE** two of the three following symbols: +, >, <.

**PUT** your answers in the **BLANKS BELOW**.

Answer: \( 74 \color{red}{<} 46 \color{green}{> 38} \)
75. **Continued:** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

**C.** How many books could the class have read on Wednesday?

**PUT** your answer in the **BLANK BELOW**.

**SHOW** or **EXPLAIN** all your work.

---

If you think it is not even, its odd and all of the others were even.

Answer: 127 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

\[ \begin{array}{c}
46 \\
+ 38 \\
\hline
84 \\
\end{array} \]

This student made a mistake.

She did not regroup.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

74 \[ \text{?} \] 84

Answer: \( 74 \leq 46 + 38 \)
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

**PUT your answer in the BLANK BELOW.**

**SHOW or EXPLAIN all your work.**

\[
\begin{align*}
131 & \text{ is between 125 and 135 and it is} \\
\text{the closest to 130 which is exactly half of it. It is an odd number.}
\end{align*}
\]

Answer: 130 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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<tr>
<th>Number of Books Read</th>
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</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

The mistake they could make is that they would of switched the numbers in the ones column.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74 ≠ 46 ≠ 38
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

**PUT** your answer in the **BLANK BELOW**.

**SHOW** or **EXPLAIN** all your work.

They could have read 145 books because they started with 5 then they counted by tens to get 145.

Answer: **145** books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

\[
\begin{align*}
\text{The mistake was well } & 10 \times 30 = 70 \\
6 \times 8 = 14. & \text{ The student forgot to add the tens in 14. The real answer is 84.}
\end{align*}
\]

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: \(\leq, >, \geq\)

PUT your answers in the BLANKS BELOW.

Answer: \(74 \leq 46 \pm 38\)
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

**C.** How many books could the class have read on Wednesday?

PUT your answer in the **BLANK BELOW**.

SHOW or EXPLAIN all your work.

Well I subtracted 38 from 129. I got 91. I subtracted 46 from 91. I got 45. This how I got my answer.

Answer: 45 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

The addition mistake made is the student forgot to add the extra 10 from 46 so the actual answer is 84.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: $\oplus$, $>$, $\odot$

PUT your answers in the BLANKS BELOW.

Answer: $74 \leq 46 + 38$
75. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

**C.** How many books could the class have read on Wednesday?

**PUT** your answer in the **BLANK BELOW**.

**SHOW** or **EXPLAIN** all your work.

\[
\begin{align*}
107 - 84 & = 23 \\
\text{23 books could have been read.}
\end{align*}
\]

Answer: 23 books
<table>
<thead>
<tr>
<th>Number</th>
<th>Score</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2-1</td>
<td></td>
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<td>T2-3</td>
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<td>T2-4</td>
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<td>T2-5</td>
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<td>T2-6</td>
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<td>T2-8</td>
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<td>T2-9</td>
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<tr>
<td>T2-10</td>
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PSSA, Grade 3 Math

Mr. Hodge’s Books

Handscoring Practice Set*

*Responses in this set do not have true scores. Apply scores based on scoring criteria.
76. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
</tr>
</thead>
<tbody>
<tr>
<td>46</td>
<td>38</td>
<td>?</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

The mistake he could've done is to forget to carry the ten when he added 8 and 6.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Mrs. Hodge's class read 46 books on Monday and 38 books on Tuesday.

Answer: 74 > 46 + 38  46 + 38 = 47, then they did
76. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[
\begin{align*}
\frac{46}{12} & \times 11 \\
+38 & \\
\frac{84}{47} & \\
\end{align*}
\]

Answer: 47 books
76. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

**The student could have forgot to put the 1 on the top because you have to put the one on the top when you regroup.**

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

**USE** two of the three following symbols: +, >, <.

**PUT** your answers in the **BLANKS BELOW**.

Answer: 74 ≤ 46 + 38
76. **Continued.** Please refer to the previous page for task explanation,

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

**PUT** your answer in the **BLANK BELOW.**

**SHOW** or **EXPLAIN** all your work.

```
128 127 128 129 84
130 131 132 133 134
  84
  __________
  46 38
```

**Answer:** 45 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

_The mistake was that he forgot a number._

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

**USE** two of the three following symbols: +, >, <.

**PUT** your answers in the **BLANKS BELOW**.

Answer: \( 74 \neq 46 \geq 38 \)
75. *Continued.* Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

I now because it in
the odd

Answer: 129 books
76. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

The student forgot to add the one up to 46. He should have done that.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <

PUT your answers in the BLANKS BELOW.

Answer: $74 \underline{<} 46 \underline{+} 38$
76. *Continued.* Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[
\begin{align*}
1 & \\
46 & \\
+127 & \\
\hline
133 & \\
-89 & \\
\hline
44 & \\
\end{align*}
\]

Answer: \(43\) books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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<tr>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

He could have made the mistake of not...

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74 \( \leq \) 46 \( + \) 38
75. Continued. Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[ \text{127 because it was odd and between 125 and 135.} \]

Answer: 127 books
76. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

```
How they made a mistake is
they added 6 and 3 and got 14
but they didn't add the 4
```

to 4 and 3.

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

**USE** two of the three following symbols: +, >, <.

**PUT** your answers in the **BLANKS BELOW**.

Answer: $74 \neq 46 \geq 38$
76. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

**C.** How many books could the class have read on Wednesday?

**PUT.** Your answer in the **BLANK BELOW.**

**SHOW** or **EXPLAIN** all your work.

```
I will show my work first. I added 46 and 38 and got 84. Then I added 84 and 43 and got 127.
```

Answer: \( \underline{\text{43}} \) books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

The student should add the problem he didn't add the carried one.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: \( 74 \leq 46 + 38 \)
75. Continued. Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[
\begin{align*}
125 + \frac{175}{130} &= 135 \\
\text{It is 139 because} \\
\text{it is an odd number and 129 is odd not even.}
\end{align*}
\]

Answer: books
76. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

<table>
<thead>
<tr>
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<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

This student made a mistake because when he was adding 46 plus 38 in the ones he forgot to carry the one to the tens section.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74 ≤ 46 + 38
76. **Continued.** Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

**C.** How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

The answer is 413 books since

\[
84 + 48 = 132 \text{ and } 127 \text{ is an odd number between 125 and 135.}
\]

Answer: \( \frac{413}{3} \) books
76. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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</thead>
<tbody>
<tr>
<td>Monday</td>
</tr>
<tr>
<td>46</td>
</tr>
</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. **EXPLAIN** the addition mistake this student could have made.

He got it wrong because he forgot to carry the one.

He should have did it like this:

```
  416
+ 38
```

B. **WRITE** a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

*USE* two of the three following symbols: +, >, <.

PUT your answers in the **BLANKS BELOW**.

Answer: 74 \( \leq \) 46 + 38
76. Continued. Please refer to the previous page for task explanation,

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW.

SHOW or EXPLAIN all your work.

\[
\begin{array}{c}
\boxed{146} \\
+ \boxed{38} \\
\underline{-84} \quad \text{books} \\
\underline{+50} \\
= 134 \text{ BOOKS}
\end{array}
\]

Answer: 134 books
75. Mr. Hodge kept track of the number of books his class read at home as shown in the table below.

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<tbody>
<tr>
<td>Monday</td>
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<td>46</td>
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</tbody>
</table>

Mr. Hodge asked his students to find the total number of books the class read on Monday and Tuesday combined.

One student added 46 and 38 and got 74.

A. EXPLAIN the addition mistake this student could have made.

The students mistake was that when they got 8 + 6 = 14 they forgot to put the 1 on top of the 4 on the other side. Or they could have added on the left side first and didn’t no wear to put the 1 so the just left out the one.

B. WRITE a true number sentence comparing the number 74 to the number of books the class read on Monday and Tuesday.

USE two of the three following symbols: +, >, <.

PUT your answers in the BLANKS BELOW.

Answer: 74 > 46 ± 38
75. Continued. Please refer to the previous page for task explanation.

Mr. Hodge told his students that the combined number of books they read on Monday, Tuesday, and Wednesday was an odd number between 125 and 135.

C. How many books could the class have read on Wednesday?

PUT your answer in the BLANK BELOW,
SHOW or EXPLAIN all your work.

I added 46 + 38 and got 84.
Then I subtracted 133 - 84 and got 49. Next I added 84 + 49 and got 133. In the beginning I got 133 because I knew it had to be higher than 125 and lower than 135.

Answer: 133 books and knew 133 could be it so I tried it.
<table>
<thead>
<tr>
<th>Number</th>
<th>Score</th>
<th>Consensus</th>
<th>Annotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-1</td>
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<tr>
<td>P-2</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>P-10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Responses in this set do not have true scores. Apply scores based on scoring criteria.*
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PSSA, Grade 3 Math

Mr. Hodge’s Books

Handscoring
Training Sets 1 and 2
True Scores/Annotations
<table>
<thead>
<tr>
<th>Page</th>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1    | 1     | A. 0.5 point – correct but incomplete explanation (“…didn’t regroup” with or without “84”, lacks specific information about the addition mistake)  
B. 1 point – correct answer.  
C. 0 points – incorrect answer and incorrect support. |
| 2    | 3     | A. 0 points – incorrect explanation.  
B. 1 point – correct answer.  
C. 2 points – correct answer and complete support. Note that either the work or the explanation is complete; both are not necessary. |
| 3    | 1     | A. 0.5 point – correct but incomplete explanation (same note as #1).  
B. 0 points – incorrect answer.  
C. 0 points – incorrect answer and incorrect support. |
| 4    | 2     | A. 1 point – complete explanation.  
B. 1 point – correct answer.  
C. 0 points – incorrect answer and incorrect support. |
| 5    | 4     | A. 1 point – complete explanation.  
B. 1 point – correct answer.  
C. 2 points – correct answer and complete support (“…the number of books on Monday + the number of books on Tuesday was 84…” and “…saw how many more I needed to get to 127…”). In the addition shown to get 43, 16 is how many books from 84 to 100, and 27 is how many books from 100 to 127. |
| 6    | 2     | A. 1 point – complete explanation (“…put the one you get from adding 6 + 8 in the tens place to add.”) Consider “borrow” a blemish.  
B. 1 point – correct answer.  
C. 0 points – incorrect answer and incorrect support. |
| 7    | 1     | A. 0.5 point – correct but incomplete explanation.  
B. 0 points – incorrect answer (but would get MU if no additive points, see SG12).  
C. 0 points – incorrect answer and insufficient support for any credit. |
| 8    | 3     | A. 1 point – complete explanation.  
B. 1 point – correct answer.  
C. 1 point – correct answer, incorrect support. |
| 9    | 2     | A. 0.5 point – correct but incomplete explanation.  
B. 0 points – incorrect answer (would be MU).  
C. 2 points – correct answer and complete support. |
<p>| 10   | 0     | Nothing is correct for credit in any part. |</p>
<table>
<thead>
<tr>
<th>Page</th>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1    | 1     | A. 0.5 point – correct but incomplete explanation.  
       |       | B. 0 points – incorrect answer (would not be MU).  
       |       | C. 0 points – incorrect answer and support. |
| 2    | 2     | A. 1 point – complete explanation.  
       |       | B. 0 points – incorrect answer (would not be MU),  
       |       | C. 1.5 points – correct answer (43 books), correct but incomplete support (missing support for 84). |
| 3    | 4     | A. 1 point – complete explanation.  
       |       | B. 1 point – correct answer.  
       |       | C. 2 points – correct answer and complete support (even though the support is for “45” not “49”, both are correct). |
| 4    | 1     | A. 0.5 point – correct but incomplete explanation.  
       |       | B. 0 points – incorrect answer (would not be MU).  
       |       | C. 0.5 point – correct but incomplete support. |
| 5    | 3     | A. 0.5 point – correct but incomplete explanation.  
       |       | B. 1 point – correct answer.  
       |       | C. 2 points – correct answer and complete support. |
| 6    | Min 1 | Nothing is correct for credit in any part, but **minimal understanding** is awarded in part B.  
       |       | The student has used more than one of the given symbols to make a true number sentence; however, it does not compare the number 74 to the number of books read on Monday and Tuesday. |
| 7    | 2     | A. 1 point – complete explanation (“did not regroup” is ½ point, but also showing the proper regrouping makes this complete).  
       |       | B. 1 point – correct answer.  
       |       | C. 0 points – incorrect answer and incorrect support. |
| 8    | 0     | A. 0 points – incorrect explanation.  
       |       | B. 0 points – incorrect answer (is not MU).  
       |       | C. 0 points – incorrect answer and incorrect support. |
| 9    | 4     | A. 1 point – complete explanation.  
       |       | B. 1 point – correct answer.  
       |       | C. 2 points – correct answer and complete support (no need to add 38 and 46 with this approach). |
| 10   | 3     | A. 1 point – complete explanation.  
       |       | B. 1 point – correct answer.  
       |       | C. 1.5 points – correct answer and correct but incomplete support (missing support for 84). |