

# 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.

**Number of Books Read**

Monday	Tuesday	Wednesday
46	38	?

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.

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**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.

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**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:**

Score	In this item, the student –
4	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.
3	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.
2	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.
1	Demonstrates minimal understanding of solving problems involving the four operations, and identifying and explaining patterns in arithmetic.
0	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.
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:**

Score	Description
4	Student earns 4 points.
3	Student earns 3.0 – 3.5 points.
2	Student earns 2.0 – 2.5 points.
1	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.
0	Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.

A.

What?	Why?
	<b>Sample Explanation:</b> The student forgot to carry the one from 14 to the tens place.

(1 score point)

1 point for complete explanation

OR ½ point for correct but incomplete explanation

B.

What?	Why?
$74 < 46 + 38$	

(1 score point)

1 point for correct answer

C.

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

(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.

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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:  $74 > 46 + 38$

**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. 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.

$$46 + 38 = 84$$

$84 + 43 = 127$  which is an  
odd number 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.

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 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.

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.

$$46 + 38 = 84 \quad 127 - 84 = 43$$

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.

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 regroup  
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.

$$\begin{array}{r}
 38 \\
 +46 \\
 \hline
 84
 \end{array}
 + 6 = 90$$


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$$\begin{array}{r}
 49 \\
 +43 \\
 \hline
 92
 \end{array}$$


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49 is odd and also between 125 and 135!

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Answer: 49 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 46, 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.

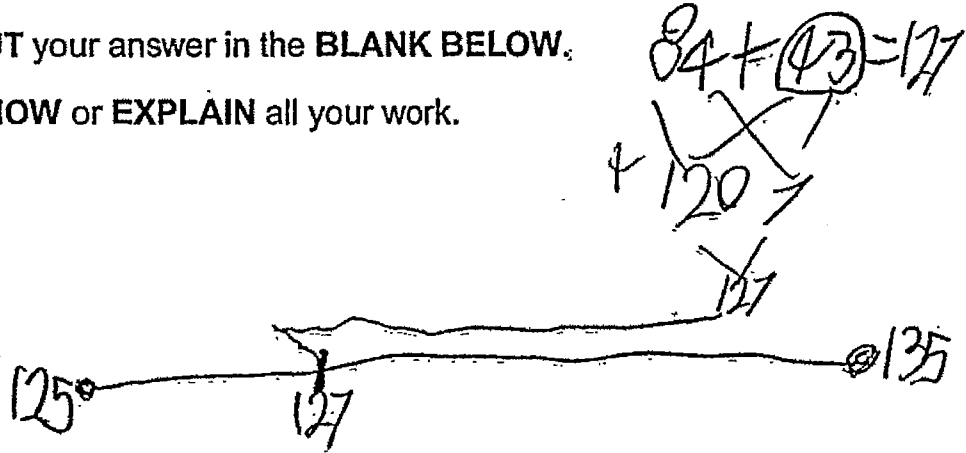
75. *Continued.* Please refer to the previous page for task explanation.

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.

SHOW or EXPLAIN all your work.



Answer: 43 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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.

$$\begin{array}{r} 46 \\ + 38 \\ \hline 84 \end{array}$$

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

The addition mistake the student could of 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 three following symbols: +, >, <.

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

Answer:  $74 \underline{-} 46 \underline{\leq} 38$

3

A. 1 point – complete explanation. “...forgot to carry the one” or equivalent is considered “correct but incomplete” by itself, but seeing the addition with the placement of the “1” in the tens place makes this complete.

B. 0 points – incorrect answer. Although the number sentence is true, a minus sign is not one of the choices and the result does not compare the number 74 to the number of books read on Monday and Tuesday.

C. 2 points – correct answers (43,45,47,49) and complete support. The student has correctly shown the addition to get the total number of books for Monday and Tuesday (84) in part A, so does not have to show this again. Also note that if multiple answers are given, all must be correct in order to receive credit.

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.

$$\begin{array}{r}
 125 \\
 127 \\
 129 \\
 131 \\
 133 \\
 135
 \end{array}
 -
 \begin{array}{r}
 84 \\
 84 \\
 84 \\
 84 \\
 84 \\
 84
 \end{array}
 =
 \begin{array}{r}
 41 \\
 43 \\
 45 \\
 47 \\
 49 \\
 49
 \end{array}$$

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: 43, 45, 47, or 49 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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:  $74 \leq 46 + 38$

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.

$$\begin{array}{r} 1 \\ 46 \\ +38 \\ \hline 84 \end{array}$$

Answer: 84 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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:  $74 < 46 + 38$

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.

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.

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.

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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:  $74 < 46 + 38$

- 1 A. 0.5 point – correct but incomplete explanation. “He forgot to carry the 1” by itself lacks specific information about the addition mistake.  
 B. 1 point – correct answer.  
 C. 0 points – incorrect answer (51) 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.

$$\begin{array}{r} 46 \\ + 5 \\ \hline 51 \end{array}$$

Answer: 51 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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.

$40 + 30 = 70$      $8 + 6 = 14$   
 So he thought that  
 $40 + 30 = 70$  and got 74 but  
 the real 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: +, >, <.

PUT your answers in the BLANKS BELOW.

$74 < 46 + 38$

Answer:  $74 < 46 + 38$

- 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.

125 and 135 are even  
numbers the odd number  
in between them is 129.

Answer: 129 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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.

FOURTY 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:  $74 \neq 46 + 38$

## 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.

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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.

over counted the  
#

- 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:  $\neq$ ,  $<$ .

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

Answer:  $74 \neq 46 + 38$

## 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.

$$125 - \textcircled{131} = 135$$

Answer: 131 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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

# PSSA, Grade 3 Math

*Mr. Hodge's Books*

Handscoring  
Training Set 1

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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:  $74 < 46 + 38$

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 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.

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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.

$$\begin{array}{r} 1 \\ 46 \\ +38 \\ \hline 84 \end{array} \quad \begin{array}{r} 127 \\ -84 \\ \hline 43 \end{array}$$

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:

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 or she didn't regroup if they did  
regroup they 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.

**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.

$125 \ 129 \ 133$   
 $126 \ 130 \ 134$   
 $127 \ 131 \ 135$   
 $128 \ 132$

$135$  is an odd number.

Answer: 135 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 for got 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.

Number of Books Read		
Monday	Tuesday	Wednesday
46	38	?

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:  $74 \leq 46 + 38$

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.

$$\begin{array}{r} 16 \\ 127 \\ \hline 43 \text{ books} \end{array}$$

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.

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 ten's 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:  $74 \leq 46 + 38$

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.

Even	Odd
126	127
128	129
130	131
132	133
134	135

Answer: 127 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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. <sup>34</sup>

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

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 think it could be 84 because you  
would add

Answer: 84 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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:  $74 < 46 + 38$

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.

The amount of books the class  
read on Wednesday is 43 books  
because if you add 43 to 78 it  
equals a 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.

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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.

$$\begin{array}{r} 133 \\ - 084 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 46 \\ + 38 \\ \hline 84 \end{array}$$

Answer: 49 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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

Subject: **Math**

Item: Mr. Hodge's Books

Grade 3

Name \_\_\_\_\_

Number	Score	Notes
<b>T1-1</b>		
<b>T1-2</b>		
<b>T1-3</b>		
<b>T1-4</b>		
<b>T1-5</b>		
<b>T1-6</b>		
<b>T1-7</b>		
<b>T1-8</b>		
<b>T1-9</b>		
<b>T1-10</b>		

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# PSSA, Grade 3 Math

*Mr. Hodge's Books*

Handscoring  
Training Set 2

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	74

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 mist  
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:  $74 \geq 46 \rightarrow 38$

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 pict a number  
between 125 135  
and I added up  
46  
+ 38  
84  
Answer: 117 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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  
 he/she added 6 and 8 and got 14 he/she  
 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:  $74 \not< 46 > 38$

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.

43 books

84  
+10 94 ✓ +10  
20 104 ✓ +10  
30 114 ✓ +10  
40 124 ✓ +10  
41 125 ✓ +1  
42 126 ✓ +1  
43 127 ✓ +1

Answer: \_\_\_\_\_ books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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:  $74 \leq 46 + 38$

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.

$$\begin{array}{r} 46 \\ + 38 \\ \hline 84 \end{array}$$

$$\begin{array}{r} 129 \\ - 84 \\ \hline 45 \end{array}$$

check

$$\begin{array}{r} 45 \\ + 84 \\ \hline 129 \end{array}$$

45 books could've been read on Wednesday

Answer: 49 books

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

Number of Books Read		
Monday	Tuesday	Wednesday
46	38	?

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:  $74 > 46 + 38$

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 what  $46 + 38 =$   
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.

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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  
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.  $MON + Tue = 84$

$$\begin{array}{r} 1 \\ 84 \\ + 48 \\ \hline 132 \end{array} \quad \begin{array}{r} 1 \\ 84 \\ + 47 \rightarrow 47 \text{ books on Wednesday} \\ \hline 131 \rightarrow 131 \text{ total books} \end{array}$$

Answer: 47 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 add 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:  $74 \neq 46 \geq 38$

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.

If you think 7  
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.

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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.

$$\begin{array}{r} 46 \\ +38 \\ \hline 84 \end{array}$$
 The student made a mistake the because he 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  $\ominus$  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.

131 is between 125  
and 135 and it is  
the closest to 130  
which is exactly half  
of it. It is an odd number.

Answer: 131 books

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

**Number of Books Read**

Monday	Tuesday	Wednesday
46	38	?

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.

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 well  $40 + 30 = 70$   
 $6 + 8 = 14$ . The student forgot to add  
 the tens in 14. The real 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:  $\oplus$ ,  $>$ ,  $\lt$ .

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

Answer:  $74 \lt 46 + 38$

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.

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.

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 8+6 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:  $\oplus$ ,  $>$ ,  $\otimes$

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.

$$\begin{array}{r} 127 \\ - 84 \\ \hline 43 \end{array}$$

books  
Could have  
been read

Answer: 43 books

Subject: **Math**

Item: Mr. Hodge's Books

Grade 3

Name \_\_\_\_\_

Number	Score	Notes
T2-1		
T2-2		
T2-3		
T2-4		
T2-5		
T2-6		
T2-7		
T2-8		
T2-9		
T2-10		

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# PSSA, Grade 3 Math

*Mr. Hodge's Books*

## Handscoring Practice Set<sup>\*</sup>

\*Responses in this set do not have true scores. Apply scores based on scoring criteria.

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 on Tuesday they read 38 books.*  
 Answer:  $74 < 46 + 38$  *46 + 38 = 84 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.

$$\begin{array}{r} 46 \\ +38 \\ \hline 84 \end{array}$$

$$\begin{array}{r} 12 \\ \cancel{88} \cancel{11} \\ -84 \\ \hline 47 \end{array}$$

Answer: 47 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 1  
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.

$$\begin{array}{r}
 46 \\
 + 38 \\
 \hline
 84 \\
 + 45 \\
 \hline
 129
 \end{array}$$

~~126~~ 127 ~~128~~ 129 ~~130~~ 131 ~~132~~ 133 ~~134~~  
~~135~~

127 43 129  
 1

Answer: 45 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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:  $74 \neq 46 > 38$

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 know because it is in  
the 0, 1, 2, 3 places.

Answer: 129 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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  

$$\begin{array}{r} 46 \\ + 38 \\ \hline 84 \end{array}$$
  
 to 84. 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:  $74 < 46 + 38$

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.

$$\begin{array}{r} 1 \\ 46 \\ + 38 \\ \hline 84 \end{array}$$

$$\begin{array}{r} 0 \ 12 \\ + 27 \\ - 84 \\ \hline 43 \end{array}$$

Answer: 43 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 regrouping.

- 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.

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.

**Number of Books Read**

	Monday	Tuesday	Wednesday
	46	38	?

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 8 and got 14  
 but they didn't add the 1  
 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:  $74 > 46 > 38$

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.

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

Answer: 43 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 who did  
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:  $74 < 46 + 38$

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.

$$\begin{array}{r} 125 + 10 = 135 \\ \underline{139} \\ 0 \end{array}$$

It is 139 because  
it is a odd number and 139  
is odd not even.

Answer: \_\_\_\_\_ books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 43 books since  
 $84 \text{ plus } 43 = 127$  and  
127 is an odd number between  
125 and 135.

Answer: 43 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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.

$$\begin{array}{r} 46 \\ + 38 \\ \hline 84 \end{array}$$

- 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.

$$\begin{array}{r} 46 \\ + 38 \\ \hline 84 \end{array}$$

84 books + 50 = 134 BOOKS

Answer: 134 books

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

Number of Books Read

Monday	Tuesday	Wednesday
46	38	?

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 add on the left side first and didn't no wear to put the 1 so the

- 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:  $74 \leq 46 + 38$

just left out the one,

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.

## Practice Set\*

Subject: **Math**Item: **Mr. Hodge's Books**

Grade 3

Name \_\_\_\_\_

Number	Score	Consensus	Annotation
P-1			
P-2			
P-3			
P-4			
P-5			
P-6			
P-7			
P-8			
P-9			
P-10			

**\*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

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Pennsylvania Math Training Workshop GRADE 3 Mr. Hodge's Books			T1
Page	Score	Description	
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.	
10	0	Nothing is correct for credit in any part.	

## Pennsylvania Math Training Workshop

## GRADE 3

## Mr. Hodge's Books

## T2

Page	Score	Description
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 <b>minimal understanding</b> 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 $\frac{1}{2}$ 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).

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