PSSA and Keystone Exams Fall 2015 Item Writing and Handscoring Training Workshops

PSSA, Grade 7 Math

Dominic Does Homework

Handscoring Anchor Set

73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division **without** the aid of a calculator.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

PSSA Math: Dominic Does Homework (Grade 7), Anchor Set

Grade 7 Math Dominic Does Homework

Assessment Anchor this item will be reported under:

M07.A-N.1 Apply and extend previous understandings of operations to add, subtract, multiply, and divide rational numbers.

Specific Anchor Descriptor addressed by this item:

M07.A-N.1.1 Solve real-world and mathematical problems involving the four operations with rational numbers.

Scoring Guide:

Score	In this item, the student –
4	Demonstrates a thorough understanding of performing the four operations with
	rational numbers by correctly solving problems and clearly explaining procedures.
3	Demonstrates a general understanding of performing the four operations with
	rational numbers by correctly solving problems and clearly explaining procedures
	with only minor errors or omissions.
2	Demonstrates a partial understanding of performing the four operations with
	rational numbers by correctly performing a significant portion of the required task.
1	Demonstrates minimal understanding of performing the four operations with
	rational numbers.
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-	B – Blank, entirely erased or written refusal to respond
scorables	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 performing the four operations with rational numbers.
0	Response is incorrect or contains some correct work that is irrelevant to the
	skill or concept being measured.

A.

What?	Why?			
$0.1\overline{6}$	Sample Work:			
OR	0.1666			
0.166	6) 1.0000			
	<u>-6</u> ↓			
OR	40			
EQUIVALENT	<u>-36</u> ↓			
	40			
	<u>–36</u> ↓			
	40			
	<u>–36</u>			
	4			
	OR			
	Sample Explanation:			
	When dividing 1 by 6, I have to keep dividing 40 by 6, which leaves a			
	remainder of 4. Then, when I bring down the next 0, I have to divide 40			
	by 6 again. I can see that I would have to keep dividing 40 by 6 forever.			
	OR EQUIVALENT			

(2 score points)

1 point for correct answer

1 point for complete support

OR ½ point for correct but incomplete support

B.

What?	Why?		
	Sample Explanations:		
	The answer must have a denominator that is a multiple of 6 and 8.		
	OR		
	$\frac{2}{14} < \frac{1}{6}$ and $\frac{1}{6} + \frac{1}{8} > \frac{1}{6}$ since $\frac{1}{8}$ is a positive number.		
	However, $\frac{2}{14}$ cannot be both less than and greater than $\frac{1}{6}$, so it cannot		
	be the correct answer. OR EQUIVALENT		

(1 score point)

1 point for complete explanation

OR ½ point for correct but incomplete explanation

C.

What?	Why?	
7		
24		·

(1 score point)

1 point for correct answer

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

The decimal representation is 0.166. To get the decimal representation I divided the numerator by the denomenator.

6)100 -6 -6 -36 -36 -36 -36 -36

- 4
- A. 2 points correct answer and complete support (shows long division).
- B. 1 point complete explanation.
- C. 1 point correct answer.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

I can tell Dominic is incorrect because 14 is not a common multiple of 6 and 8.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

<u>-</u> 24

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

6.) 10 The decipal continues

40

40

36

40

36

The Leaned form of to is 0.166666...

4

- A. 2 points correct answer and complete support.
- B. 1 point complete explanation.
- C. 1 point correct answer.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

Dominie abled across instead of Ginding LCD and long it

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator. You can tell that the descimal will repeat because after adding a 6/10 to the to be able to divide by 6, the closest per $\frac{40}{26}$ can come to 40, the result of 10-6, is $\frac{36}{26}$. Then, this will just continues to repeat.

³ A. 2 points – correct answer and complete support.

B. 0.5 point – correct but incomplete explanation (24 is not the *greatest* common denominator, but the concept is correct).

C. 1 point – correct answer.

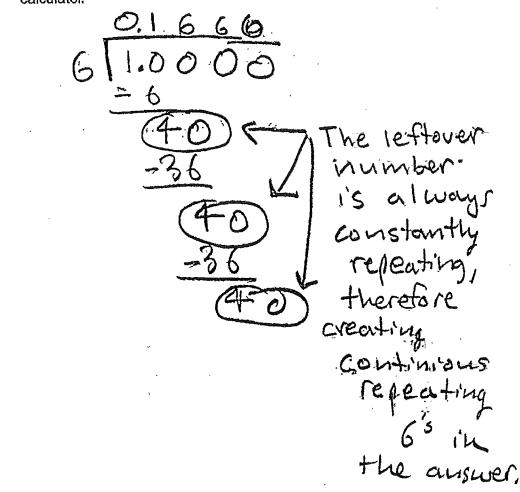
Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually

The greatest common denominator of 8 and 6 is 24, not 14. Therefore denominator makes his fraction recorrect.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms. $\frac{1}{6} + \frac{1}{8} = \frac{1}{6} + \frac{4}{24} = \frac{1}{8} + \frac{3}{24} = \frac{3}{24}$

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.



- 3 A. 1 point no credit for answer (missing notation for repeating decimal); complete support.
 - B. 1 point complete explanation.
 - C. 1 point correct answer.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

He had skipped the step of converting both fractions! denominators into common denominators, and had just added across the numerator and denominator.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

$$\frac{1 \times 4}{6 \times 4} = \frac{4}{24}$$

$$+ \frac{1 \times 3}{8 \times 3} = \frac{3}{24}$$



73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

0.1666 61.0 -6 -36 -36

You divide I by be to get a decimal answer of 0.157

A. 1 point – no credit for answer (0.167); complete support.

B. 0.5 point – correct but incomplete explanation (LCM is not 48).

C. 1 point – correct answer.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you, could determine that Dominic is incorrect without actually computing the sum.

Dominic would first have to
find a LCM which is lowest
common denominator. Otherwise,
your answer is wrong because you
can not add 2 denominators that
don't match. The LCM is 48.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

$$\frac{1^{18} + 1^{18}}{6t_8} = \frac{8}{5t_8} + \frac{6}{48} = \frac{14}{48} = \frac{7}{48}$$

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

- A. 1 point no credit for answer (notation for repeating decimal is incorrect); complete support.
 - B. 0 points incorrect explanation.
 - C. 1 point correct answer.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$,

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

$$\frac{1}{6} + \frac{1}{8} = \frac{7}{29}$$

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

when you should get 366.60?

To 16 you should get 366.60?

A. 0 points – incorrect answer and incorrect support.

B. 0.5 point - correct but incomplete explanation ("denominators that are the same" is correct, but if "numerators" are also explained, it must be clear that this does not mean "1 + 1").

C. 1 point – correct answer.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

Dominic is incorrect without actually

Dominic is incorrect without actually

Dominic is incorrect without actually

Because Ricset you must be the benchmost of the formula the windstar and the same some accommost of attack at an and whe some accommost of attack at an analysis and the same accommost of attack at an analysis at a commost of attack at a commost of att

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

- Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

1=6=0.16

- A. 0.5 point incorrect answer; correct but incomplete support $(1 \div 6)$.
 - B. 0 points incorrect explanation.
 - C. 0 points incorrect answer.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

Dominic could be wrong because maybe he placed a Number wrong or put with decimal in the wrong spot.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in

1×2 (1)

lowest terms.

Lowest-Born 1/48

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

 FIRST DAY DECAUSE TO A DECAUSE

A. 0 points – incorrect answer and incorrect support.

 $B. \ \ 0 \ points-incorrect \ explanation.$

C. 0 points – incorrect answer.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

LXL=48 because 8x6/6x8 is 48

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

48

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

The problem will repeat itself because it is dealing with numbers that can't go into each other. Therefore it will repeat itself.

- A. 0 points incorrect answer and incorrect support.
 - B. 0 points incorrect explanation.
 - C. 0 points incorrect answer.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

Dominic is incorrect because the fraction 1204 put into lowest terms.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

The sum of 1/6 4 18 is 1/24.

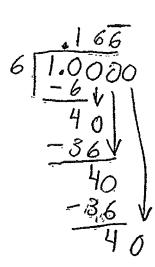
PSSA and Keystone Exams Fall 2015 Item Writing and Handscoring Training Workshops

PSSA, Grade 7 Math

Dominic Does Homework

Handscoring Training Set 1

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.



Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$,

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

I could determine that Dominic is wrong because he just added the Fractions. What he should have did was make the denominators the same by finding -rs instead.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

The sum of tand & would be

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{9}$ is $\frac{2}{44}$.

B. Explain how you could determine that Dominic is incorrect without actually

You could determine that Dominic is incomed by looking at the fraction. You can compare the sum with the numbers being added. The fraction if is less that both to and to. The fractions to and to card make a number less that them were added together because they are both pastiurs.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in

lowest terms.

$$\frac{1}{16} = \frac{3}{34}$$
 $\frac{4}{34} + \frac{3}{34} = \boxed{\frac{7}{34}}$
 $\frac{1}{8} = \frac{3}{34}$

73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

The decimal exceptation for

hile doing long division when thing to get the decimal, you're keep certing the same contact.

Which explains receasing decimal.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

O Add fruttons correctly they
Must have the Same denominator, You have to
find the greatest common factor for
the denominators to be the same.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

 $\frac{67}{100}$ 0.67) $\frac{-70}{70}$

I did long divison for one and six.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

Dominic added the top and the bottom therefor he got a Domnic has to multiple the two He come Check by doing this

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

 $\frac{1 \times 1}{6 \times 8} = \frac{1}{18}$

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

I divided the numeronor by the denominator and got my answer. (0.16).

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

You could determine that Dominic 1s in correct, by add in 9 16+1/8.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

1/6+1/8=0.2916666. × 100=29.16

I added the DV 1/8 and 90t
0.29166666 then I multiplied it
by 100 and 90t 29.16

73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.

			A CONTRACT OF THE PARTY OF THE
A.		_	$\frac{1}{6}$? Show or explain how you could
	determine th	า๊at it repeats when doing lo	ong division without the aid of a
	calculator.	0.16666 0.16666 0.1000000 100000000000000000000000000	As you can see after the first time I subtracted 40-36=4 which add 3 = 40 and then you repete this over and over O.16666 Is the decimal form of 6
		·	

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

Well when you add decimals you have. To Slind a common detormonator and in this case the fractions will change to 8 + 6 then you add

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms. $\frac{1 \times 8}{6 \times 8} + \frac{1 \times 6}{8 \times 6} = \frac{8}{48} + \frac{6}{48} = \frac{14}{48}$

14 ×2 -28

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

The decimal representation for $\frac{1}{c}$ is 0.16666667. I can tell that it repeats because when you try to divide 100 by 6, you get a repeating decimal. But when you divide 100 by 8, you do not get a repeating decimal bividing 100 by different numbers is a test of whether or not your fractional convert into a repeating

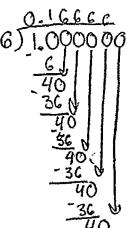
Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

I can determine that Dominic is incorrect without computing the sum because 14 is not a common multiple of 6 and 8, so he is not doing the right calculations.



- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator. $\frac{0.1666}{60.10000000} = \frac{1}{6} = 0.16$



Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

I can determine that bominic is incorrect without actually answering the problem by just looking at it. To Dominic to get an answer of it he would have added the numerators together to get 2 and the denormaties together to get 14. When you add fractions together you have to charge the denominators so that they are the same. If Dominic had alone that he would not have gother in That is why Dominic is incorrect.



- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

$$\frac{1}{6} = .1666666667$$

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

low could determine that Dominic is incorrect because if she did not use a calculator of on see that she just added straight across and that is not how you find the som of (2) two freezions.

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

Page 3-45

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

You could tell he was incorred be cause he just added the denominator you must linda common deforminator.

PSSA Math: Dominic Does Homework (Grade 7), Training Set 1

Subject:	Math	Item: Dominic Does Homework	Grade 7
Name			
Number	Score	Notes	
T1-1			
T1-2			
T1-3			
T1-4			
T1-5			
T1-6			
T1-7			
T1-8			
T1-9			
T1-10			

PSSA and Keystone Exams Fall 2015 Item Writing and Handscoring Training Workshops

PSSA, Grade 7 Math

Dominic Does Homework

Handscoring
Training Set 2

73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.

A.	What is the decimal representation for $\frac{1}{6}$? Show or explain how you could		
	determine that it repeats when doing long division without the aid of a		
	calculator.		
-			

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

JOH COULD JETERMINE THIS because to U CUN FEII HE added the numbers without Finding a common demonstrately.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms. $\frac{1}{6} \cdot 8 + \frac{8}{48} = \frac{14}{648} \cdot \frac{3}{48} = \frac{14}{648} \cdot \frac{3}{64}$ $\frac{8}{48} + \frac{6}{48} = \frac{14}{48} \cdot \frac{3}{64} = \frac{14}{64} = \frac{14}{64} \cdot \frac{3}{64} = \frac{14}{64} = \frac{$

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

To get & as a decimal, first you have to put & down then figure out what symbol to use. I used multiplication. Then you multiply & 0.100 and get 0.167.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

1 + 1 = 2:2 1 HIZ 7 Dominic's answer is incorrect because $t + \frac{1}{8}$ does equal to $\frac{2}{14}$ but he did not simplify. The correct answer is $\frac{1}{6} + \frac{1}{8} = \frac{2}{14} = \frac{1}{14}$

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

The sum of t and t is t because to the then you simplify if by and get t.

73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.

What is the decimal representation for $\frac{1}{6}$? Show or explain how you could
determine that it repeats when doing long division without the aid of a
calculator. You can do 611 and then add a zero
to one and place a decimal point above, 6110 and now divide 611000 Now we can tell it will go on -611 your forever so I write it -361 like this .16
739
The decimal representation for
$\left(\frac{1}{6} \text{ is } .16\right)$

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

You cold determine that Dominic is incorrect already because you can't add without finding a least commondenent nator which is zy but he got 14 which is wrong.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

8 CA (7) [7]

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

1=1=6=0.16

A Praction is a division problem. I did I divided by 6 and 90+ 0.16 repeating.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

Dominic just added the numerators and the denominators. To find the sum of the fractions, you cannot add the numerators and the denominators.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

1 + 1 = 7

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

1/6

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually

computing the sum. Le is incorrect with 2 you had to add both to get the some of 7/14.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

.166+145= .285

73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

10.16660 Vou the pretting 4 over and over so you continue to odd a 70111 zero and it always corresout

207

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

Commic added strongert across.

Sum-subtraction

73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

6) 1.06000 1.06000 1.06000 1.06000 1.06000 1.06000 1.06000 1.06000 1.060

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

tou could determine this because the leoblesmon denominator of G and 8 is not 14. It is 24.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

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- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

He is incorrect because an he did was add the denominators and then add the numerators.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

7 at is the sum of 6 and 8.

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum. When you add fractions you have to find the least common denominator. Then, you just multiply the numerators by whatever you did to get the denominator. Then you are you did to get the denominator. Then you are yo

73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$ he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.

	
À.	What is the decimal representation for $\frac{1}{6}$? Show or explain how you could
	determine that it repeats when doing long division without the aid of a
	calculator. [Cah tell
	Can tell O.166666 because 40 is o.1000000 because 40 is not divisible ordin July 10 so 40 July 10 so 40
	4 2000
	1 STECHNICS
1	·

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$. B. Explain how you could determine that Dominic is incorrect without actually

than 2/14 and by adding
than before

-= 14, 16 = 16 = 16, 18=.12

Subject:	iviath	item: Dominic Does Homework	Grade 7
Name			
Number	Score	Notes	
T2-1			
T2-2			
T2-3			
T2-4			
T2-5			
T2-6			
T2-7			
T2-8			
T2-9			
T2-10			

PSSA and Keystone Exams Fall 2015 Item Writing and Handscoring Training Workshops

PSSA, Grade 7 Math

Dominic Does Homework

Handscoring Practice Set*

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

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

you can tell that it repeats
in definitly because your
always soing do dubtract 36 from
40 and set 1, then bring
donn the exand get 40 and
reapert it all over again.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

i can tellitis incorect because neither bor 8 is a multiple of 14.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

1/6=4/4 ±1/8=2/64 2/84

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

well Its incorrect because I addred it up and got a different answer.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

1 + 1 = 7 24

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

5-676

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

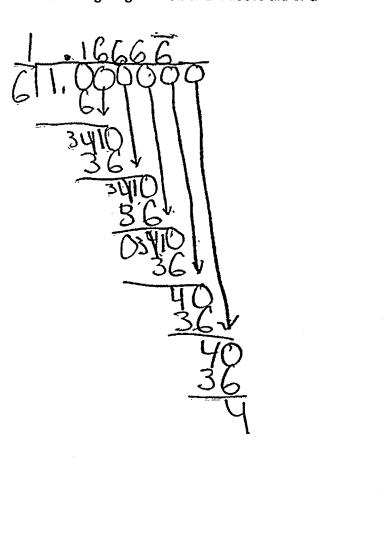
B. Explain how you could determine that Dominic is incorrect without actually computing the sum.



C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.



A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.



Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

You can determine that Dominic is incorrect because his number is not simplified.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

24

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

You would do 1:6 and you would get 6.16666667. The way you can tell if you get the same number,

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

The decinals would have tool a bigger number, have tool

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms. $1 + \frac{1}{8} = \frac{1$

Page 3-80

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

I know he is incorrect because when adding fractions you have to find a like denominator.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

7 + 3 77 29

- Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

the decimal representation for
$$\frac{1}{6}$$
? Show or explain he ne that it repeats when doing long division without the or.

$$\frac{1}{6} = \frac{0.166}{611.060}$$

$$\frac{1}{6} = \frac{611.060}{40}$$
Repeats
$$\frac{1}{36} = \frac{36}{40}$$
The decimal For $\frac{1}{6}$ is 0.166

The decimal For $\frac{1}{6}$ is 0.166

The decimal For + 15 0.166, If the number keeps showing up like the humber 40 then you can stop at the thousandth place and put the line on the top of the number that's on the thousandth place to repersent it's a repeating number.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

Dominic is wrong because if you try to check your work it would be a totally different answer. The your ever going to add or subtract fractions you have to make one that the denonator is the same as the other one because you can't just add denonators like that. It's not in equal pieces.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

$$\left(\frac{1}{6} + \frac{3}{34}\right) = \left(\frac{34}{34}\right)$$

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator. $0.\sqrt{6}$

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum. I can tell he is incorrect because

I see he added the fractions instead of multiplying them.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

- 73. Dominic prefers to work with decimals instead of fractions. For one homework problem involving $\frac{1}{6}$ and $\frac{1}{8}$, he decides to turn both fractions into decimals before continuing. He discovers that $\frac{1}{8} = 0.125$.
 - A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

the decimal is 1.6.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

1 Whole the sun is in correct sum is \$ +1 = 2

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

the lowest term is $\frac{1}{6} + \frac{1}{8} = \frac{2}{14}$

A. What is the decimal representation for $\frac{1}{6}$? Show or explain how you could determine that it repeats when doing long division without the aid of a calculator.

The decimal representation for to is 0.167, when division protein, you'll notice that the numbers keep coming up over and over again.

Dominic incorrectly decides that the sum of $\frac{1}{6}$ and $\frac{1}{8}$ is $\frac{2}{14}$.

B. Explain how you could determine that Dominic is incorrect without actually computing the sum.

The number foorteen is not evenly divisible by six or eight.

C. What is the sum of $\frac{1}{6}$ and $\frac{1}{8}$? Give your answer in the form of a fraction in lowest terms.

7 24/

PSSA Math: Dominic Does Homework (Grade 7), Practice Set

Practice Set*

Subject: Math Item: Dominic Does Homework Grade 7

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	*Deene		and the west have two seems. Annly seems based on seeming without

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

PSSA and Keystone Exams Fall 2015 Item Writing and Handscoring Training Workshops

PSSA, Grade 7 Math

Dominic Does Homework

Handscoring
Training Sets 1 and 2
True Scores/Annotations

Page	Score	1 Training Workshop GRADE 7 Dominic Does Homework T1 Description
1	4	A. 2 points – correct answer and complete support. B. 1 point – complete explanation. C. 1 point – correct answer.
2	2	A. 1 point – no credit for answer (missing notation for repeating decimal); complete support. B. 0.5 point – correct but incomplete explanation (the concept is correct, but 2/14 is not less than both 1/6 and 1/8; just less than 1/6). C. 1 point – correct answer.
3	1	A. 0 points- incorrect answer and insufficient support for any credit. B. 0.5 point – correct but incomplete explanation ("same denominator" is correct, but "greatest common factor" is incorrect). C. 1 point – correct answer.
4	, 0	 A. 0 points – incorrect answer and support. B. 0 points – incorrect explanation. C. 0 points – incorrect answer.
5	1	 A. 1.5 points – correct answer and correct but incomplete support. B. 0 points – incorrect explanation. C. 0 points – incorrect answer (no credit if not a fraction in lowest terms, every if added correctly).
6	3	 A. 2 points – correct answer and complete support. B. 1 point – complete explanation. C. 0 points – incorrect answer (not in lowest terms).
7	2	A. 0 points – incorrect answer and insufficient support for any credit. B. 1 point – complete explanation. C. 1 point – correct answer.
8	4	A. 2 points – correct answer and complete support. B. 1 point – complete explanation. C. 1 point – correct answer.
9	1	A. 0 points – incorrect answer and insufficient support for any credit. B. 0 points – insufficient explanation for any credit. C. 1 point – correct answer.
10	3	A. 1 points – no credit for answer; complete support. B. 1 point – complete explanation. C. 1 point –correct answer.

Page 3-93

		Training Workshop GRADE 7 Dominic Does Homework T2
Page	Score	Description
1	2	 A. 0.5 point – incorrect answer; correct but incomplete support ("1 ÷ 6"). B. 1 point – complete explanation. C. 1 point – correct answer.
2	0	Nothing is correct for credit in any part.
3	4	 A. 2 points – correct answer and complete support. B. 1 point – complete explanation. C. 1 point – correct answer.
4	1	 A. 0.5 point – incorrect answer; correct but incomplete support ("1 ÷ 6"). B. 0 points – insufficient explanation for any credit. C. 1 point – correct answer.
5	1	 A. 1 point – correct answer only; incorrect support. B. 0 points – incorrect explanation. C. 0 points – incorrect answer (no credit if not a fraction in lowest terms, even if added correctly).
6	2	 A. 2 points – correct answer and complete support. B. 0 points – incorrect explanation. C. 0 points – incorrect answer.
7	4	 A. 2 points – correct answer and complete support. B. 1 point – complete explanation. C. 1 point – correct answer.
8	3	 A. 2 points – correct answer and complete support. B. 0 points – insufficient explanation for any credit. C. 1 point – correct answer.
9	2	 A. 0 points – no credit for answer (repeating bar is in the wrong place); incorrect support. B. 1 point – complete explanation. C. 1 point – correct answer.
10	3	 A. 1 point – no credit for the answer; complete support. B. 1 point – complete explanation. C. 1 point – correct answer.