



New York State Testing Program

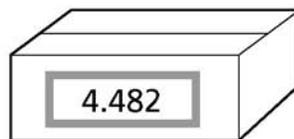
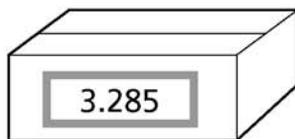
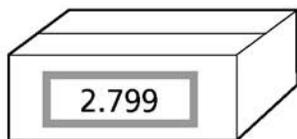
Mathematics Test

Grade **5**

2009 Scoring Guide

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.



Part A

Write the length of each of the car parts rounded to the nearest hundredth.

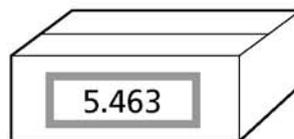
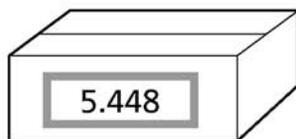
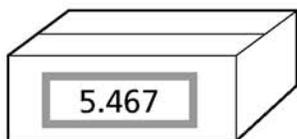
Answer _____ centimeters

_____ centimeters

_____ centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from **least** to **greatest**.

Least _____ centimeters

_____ centimeters

Greatest _____ centimeters

On the lines below, explain how you determined your answer.

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QUESTION 32

STRAND 1: NUMBER SENSE AND OPERATIONS

Complete and Correct Response:

Part A

- 2.80 (centimeters)
- 3.29 (centimeters)
- 4.48 (centimeters)

Part B

- 5.448 (centimeters)
- 5.463 (centimeters)
- 5.467 (centimeters)

AND

- The digit in the ones place in each number is a 5. The digit in the tenths place in each number is a 4.
I compared digits in the hundredths place.
 $4 < 6$, so $5.448 < 5.463$ and 5.467 .
I then compared digits in the thousandths place.
 $3 < 7$, so $5.463 < 5.467$.

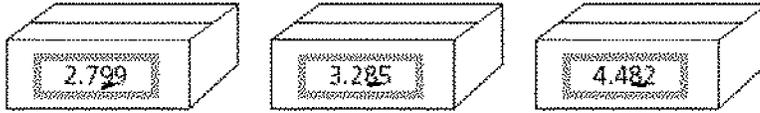
OR other valid response

Score Points:

Apply 3-point holistic rubric.

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

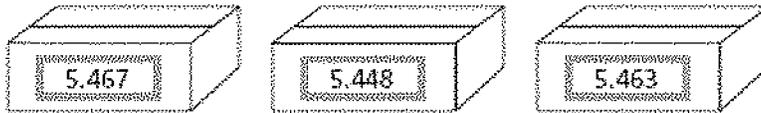
**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

Answer 2.80 centimeters
3.29 centimeters
4.48 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

Least 5.448 centimeters
5.463 centimeters
Greatest 5.467 centimeters

5.467	3
5.448	1
5.463	2

On the lines below, explain how you determined your answer.

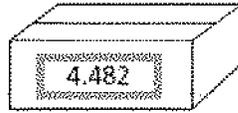
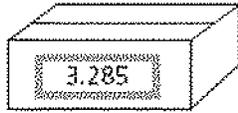
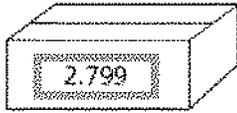
First I lined up the numbers.
Then, I looked at the ones place all the numbers were the same and I did the same thing for the tenths place and it was the same thing. Next, I looked at the hundredths place and the 4 was the least out of the 6. So 5.448 is the least and 5.463 is next and 5.467 is the greatest. The answer is 5.448, 5.463, 5.467.

This response is complete and correct.

Score Point 3

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

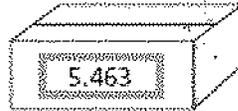
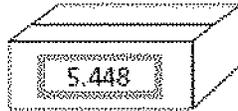
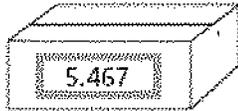
Answer 2.80 centimeters

3.29 centimeters

4.48 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

Least 5.448 centimeters

5.463 centimeters

Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

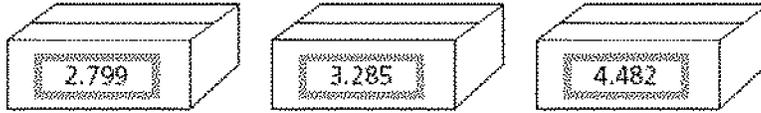
I determined my answer by looking at the hundredths place 5.448 is less than 5.463 . Then I had to look at the thousandths place. 5.463 is less than 5.467

This response is complete and correct.

Score Point 3

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

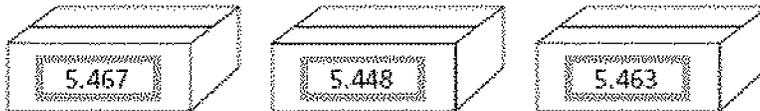
Answer 2.800 centimeters

3.300 centimeters

4.500 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

Least 5.448 centimeters

5.463 centimeters

Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

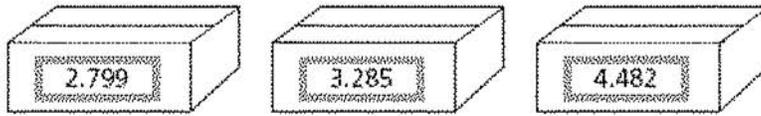
I went number by number & they
all had 534 but the middle box didn't
have a 6 like the others so that's how I determined
it the five smallest. I looked at
the next number on had 6 & the other had
3 so the one on the right was the box with 3
so that was the the next smallest & so the
one with the 6 was the largest.

This response is partially correct. The correct answers are provided in Part B. However, the comparison of the place values must be described in order to demonstrate a complete procedure for determining the order from least to greatest.

Score Point 2

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

Answer 2.80 centimeters
3.29 centimeters
4.48 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

Least 5.448 centimeters
5.463 centimeters
Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

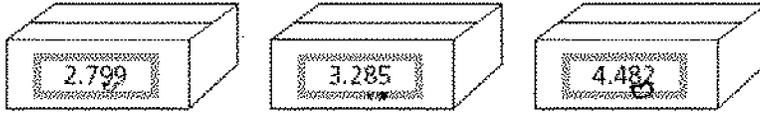
To order the parts least to greatest I put
the 5.448 then I took the next highest
number and kept on going.

This response is partially correct. The correct answers are provided in Part A and Part B. However, the comparison of the place values must be described in order to demonstrate a complete procedure for determining the order from least to greatest.

Score Point 2

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

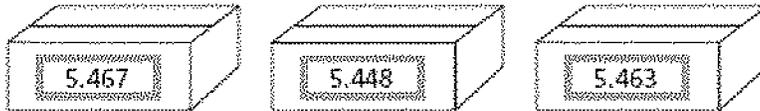
Answer 100 centimeters

90 centimeters

80 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

Least 5.448 centimeters

5.463 centimeters

Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

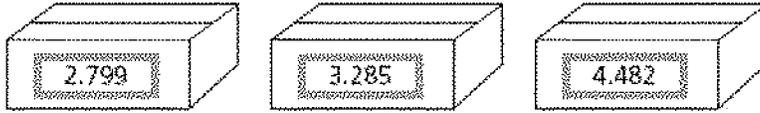
I listed the RPU Racing Com-
pany by looking at all the
#s tenths there were all 4's
then I looked at the hundredths
and seen that they were different
there was two sixes and one 4 so
I put the one with the 4 as
the least then I looked at the
ten hundredths and there were a
three and a seven then I put the
one that had the three in the middle
and I put the one with then seven
the greatest.

This response is partially correct. Part B is correct; however, Part A is incorrect.

Score Point 2

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

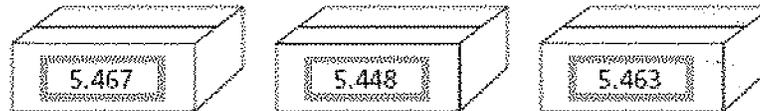
Answer 2.800 centimeters

3.295 centimeters

4.480 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

Least 5.448 centimeters

5.463 centimeters

Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

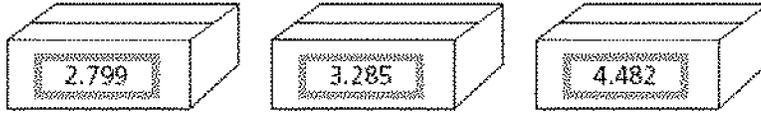
I determined my answer by looking at the digits behind the decimal because all of the whole numbers were 5. From there I just got the answer.

This response demonstrates only a limited understanding of the mathematical concepts embodied in the task. The answers in Part B are correct; however, Part A is incorrect. The explanation in Part B is not sufficient to demonstrate more than a limited understanding of the mathematical concepts embodied in the task.

Score Point 1

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

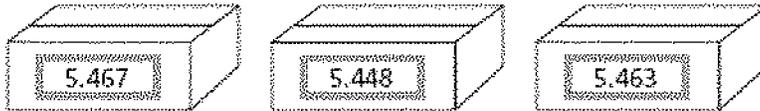
**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

Answer 2.800 centimeters
3.300 centimeters
4.500 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

Least 5.448 centimeters
5.463 centimeters
 Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

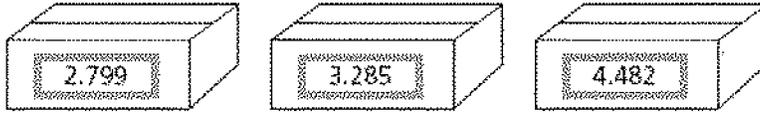
I determined my answer
by looking at the numbers
and ordering them from
least to greatest

This response demonstrates only a limited understanding of the mathematical concepts embodied in the task. Some elements of the task are addressed in the explanation in Part B; however, the answers in Part A and Part B are incorrect.

Score Point 1

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

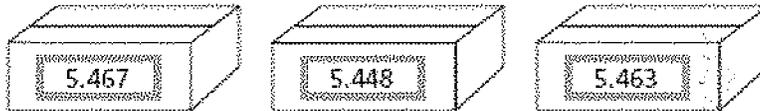
Answer 2.800 centimeters

3.200 centimeters

4.400 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

Least 5.448 centimeters

5.463 centimeters

Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

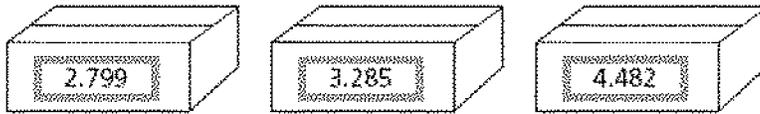
well I know my answer is right
because 5.467 is a big number but like
it is a fraction and you cut in pieces
it will be smaller the least number
 5.448 might look small look at it
~~if~~ if in fractions ~~is~~ when you are cutting
it is the biggest piece

This response is incorrect.

Score Point 0

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

Answer 4.48 centimeters

2.80 centimeters

3.29 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

Least 5.448 centimeters

5.463 centimeters

Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

I look at the first, second,
third and fourth to determine
the order

This response is incorrect.

Score Point 0



New York State Testing Program

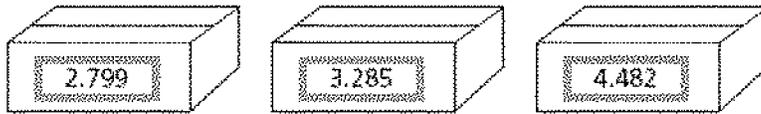
Mathematics Test

Grade **5**

2009 Practice Set

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

Answer 2.80 centimeters
3.29 centimeters
4.48 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

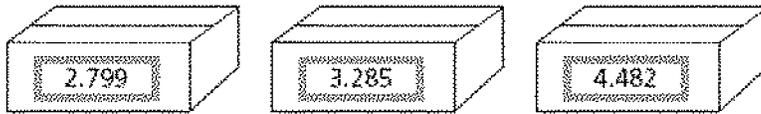
Least 5.448 centimeters
5.463 centimeters
Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

I determined my answer by looking at the last two digits in the number. That's when I knew how to put them in order from least to greatest.

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

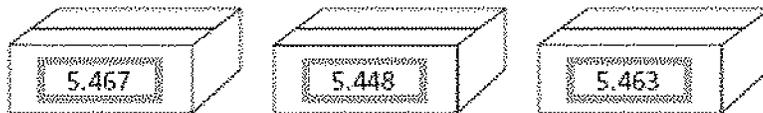
**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

Answer 2.800 centimeters
3.300 centimeters
4.500 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

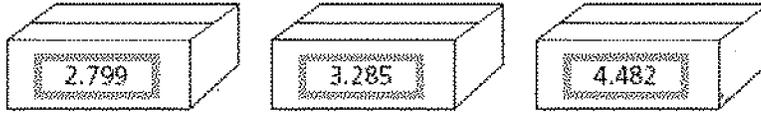
Least 5.448 centimeters
5.463 centimeters
Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

I round up if it was above 5
for part A. I put the ones I
thought for part B.

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

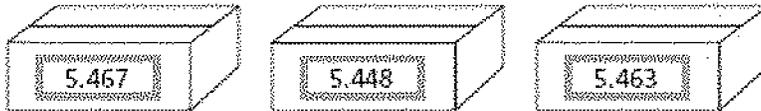
**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

Answer 2.800 centimeters
3.300 centimeters
4.500 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

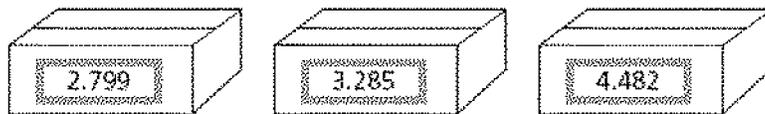
Least 5.448 centimeters
5.463 centimeters
Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

I determined my answer because
I know that 5.448 cm is less than
5.467 because I looked at the
tens place. Example: 5.467.

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

**Part A**

Write the length of each of the car parts rounded to the nearest hundredth.

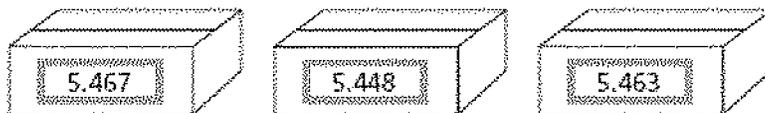
Answer 2.80 centimeters

3.29 centimeters

4.48 centimeters

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

Least 5.448 centimeters

5.463 centimeters

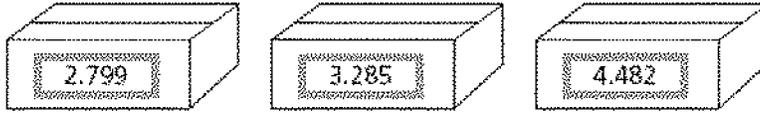
Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

The number in the thousandths place had to go up or down and then if it went up the hundredths place would go up one, and if it went down the hundredths place stayed the same.

32

On Monday, RPU Racing Company received boxes of new parts for one of its race cars. The numbers below show the lengths, in centimeters, of the parts.

**Part A**

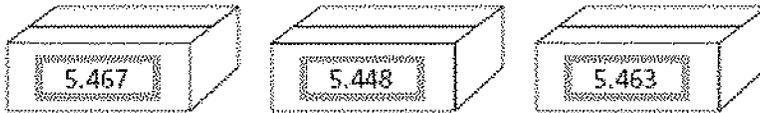
Write the length of each of the car parts rounded to the nearest hundredth.

Answer 2.80 centimeters
3.29 centimeters
4.48 centimeters

*5 or higher round
 4 or lower stays the
 same*

Part B

On Tuesday, RPU Racing Company received boxes of new parts for another car. The numbers below show the lengths, in centimeters, of the parts.



Write the measures of these car parts in order from least to greatest.

Least 5.448 centimeters
5.463 centimeters
 Greatest 5.467 centimeters

On the lines below, explain how you determined your answer.

I know that all of the whole numbers are the same so I have to look to the tenths number. All the tenth numbers are the same so I have to look at the hundredths place. The smallest is four in 5,448. So the smallest is 5,448, but the others are still the same, so I have to look at the thousands place. The 3 is the smallest so 5,463 is next smallest and the greatest is 5,467.

5th GRADE MATHEMATICS

Name: _____

PRACTICE SET ANSWER KEY

PS 1	(0-2)	
PS 2	(0-2)	
PS 3	(0-2)	
PS 4	(0-2)	
PS 5	(0-2)	
PS 6	(0-2)	
PS 7	(0-2)	
PS 8	(0-2)	
PS 9	(0-2)	
PS 10	(0-2)	
PS 11	(0-2)	
PS 12	(0-2)	
PS 13	(0-2)	
PS 14	(0-2)	
PS 15	(0-2)	
PS 16	(0-2)	
PS 17	(0-2)	
PS 18	(0-2)	
PS 19	(0-2)	
PS 20	(0-2)	

PS 21	(0-3)	
PS 22	(0-3)	
PS 23	(0-3)	
PS 24	(0-3)	
PS 25	(0-3)	
PS 26	(0-3)	
PS 27	(0-3)	
PS 28	(0-3)	
PS 29	(0-3)	
PS 30	(0-3)	
PS 31	(0-3)	
PS 32	(0-3)	
PS 33	(0-3)	
PS 34	(0-3)	
PS 35	(0-3)	
PS 36	(0-3)	
PS 37	(0-3)	
PS 38	(0-3)	
PS 39	(0-3)	
PS 40	(0-3)	