PSSA and Keystone Exams Summer 2023 Workshops

PSSA, Grade 6 Math

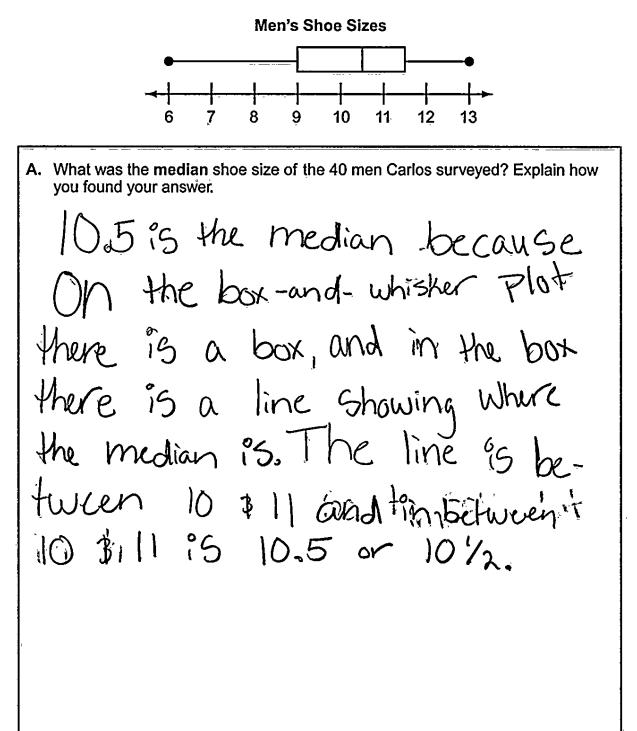
Men's Shoe Sizes

Handscoring Practice Set 1^{*}

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

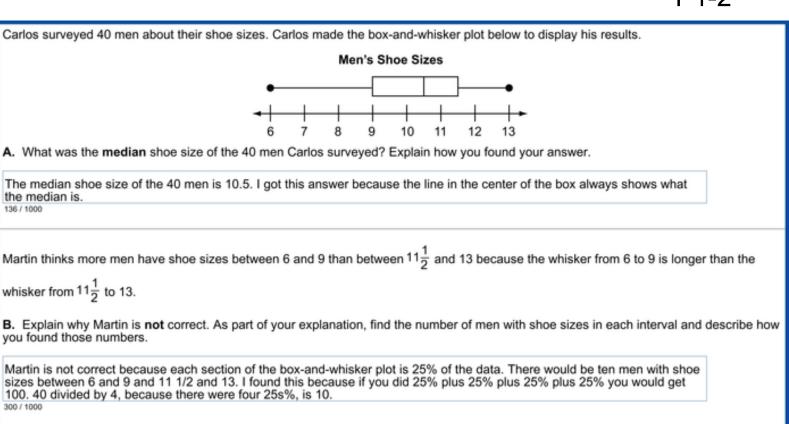
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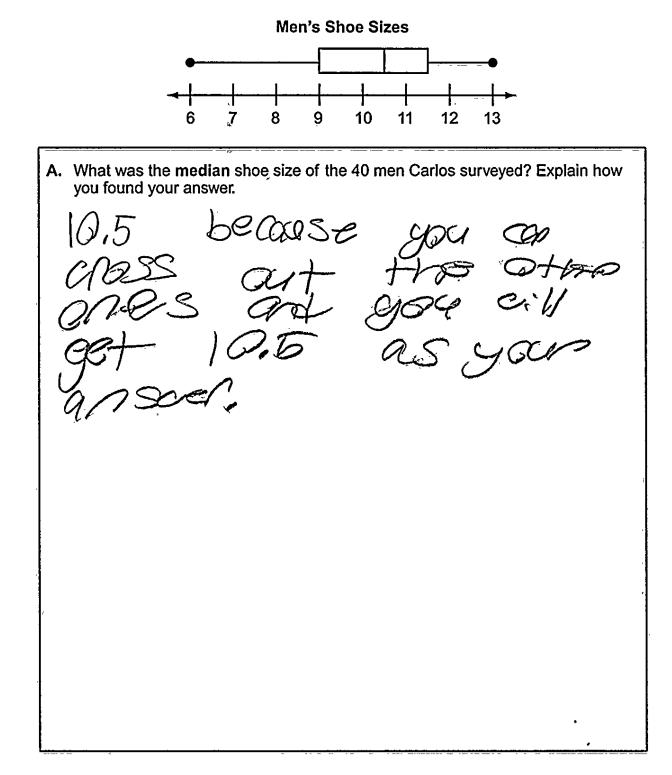


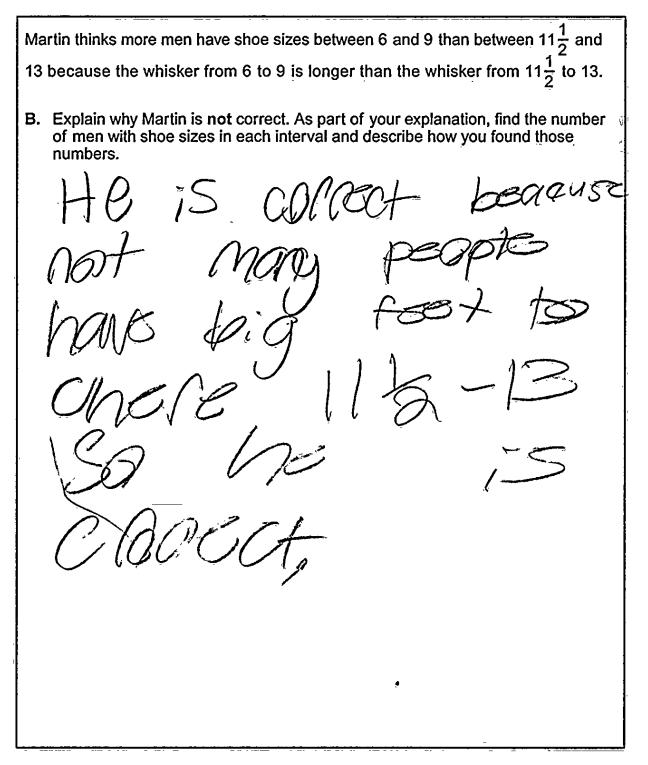
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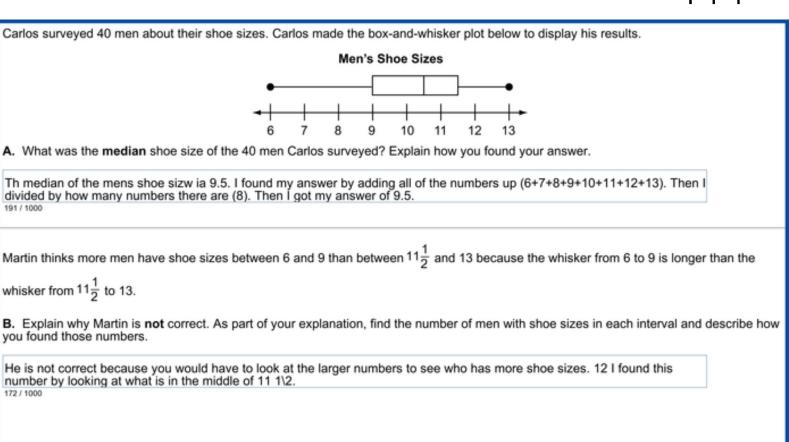
Martin thinks more men have shoe sizes between 6 and 9 than between $11\frac{1}{2}$ and 13 because the whisker from 6 to 9 is longer than the whisker from $11\frac{1}{2}$ to 13. B. Explain why Martin is not correct. As part of your explanation, find the number of men with shoe sizes in each interval and describe how you found those numbers. Martin is incorrect because Just : cause one side is longer than the other doesn't mean that thore ... of the mens shoe sizes are on that side. It all depends On the #'s in each interval. Skawed to the left is 11/2 Skewed to the right is 12



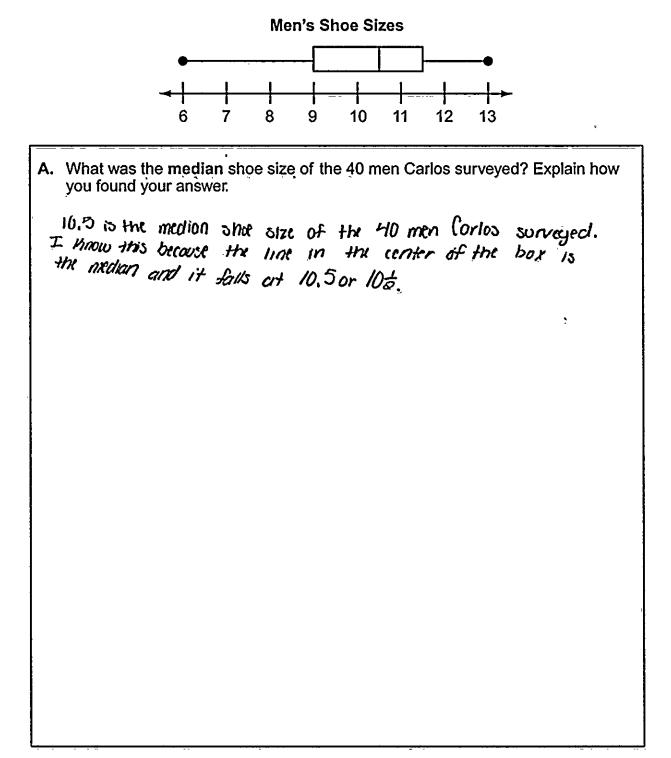
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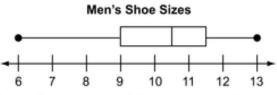
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Martin thinks more men have shoe sizes between 6 and 9 than between $11\frac{1}{2}$ and 13 because the whisker from 6 to 9 is longer than the whisker from $11\frac{1}{2}$ to 13. B. Explain why Martin is not correct. As part of your explanation, find the number of men with shoe sizes in each interval and describe how you found those numbers. Montin, you are not correct because each section of the box-and-whisher plot has the some number and in it. Each section represents 4. of the 07 The longer the section, the more spread out data. data is There are 10 men with shor sizes between G and 9. There are also the shoe sizes from 115 to 13. I throw this cach interval is 4 of the data and men with because ti x40=10.

Carlos surveyed 40 men about their shoe sizes. Carlos made the box-and-whisker plot below to display his results.



A. What was the median shoe size of the 40 men Carlos surveyed? Explain how you found your answer.

The median of the 40 shoe sizes Carlos surveyed was 9 and 10. I found this answer by looking at his box and wisker plot and saw that the most number was 9 and 10. Also by seeing that the number 9 and 10 box was bigger than all the other ones and that means that 9 and 10 are the answer. You could also cross of each end one by one then see what one or ones are left and they are your meadian.

Martin thinks more men have shoe sizes between 6 and 9 than between $11\frac{1}{2}$ and 13 because the whisker from 6 to 9 is longer than the

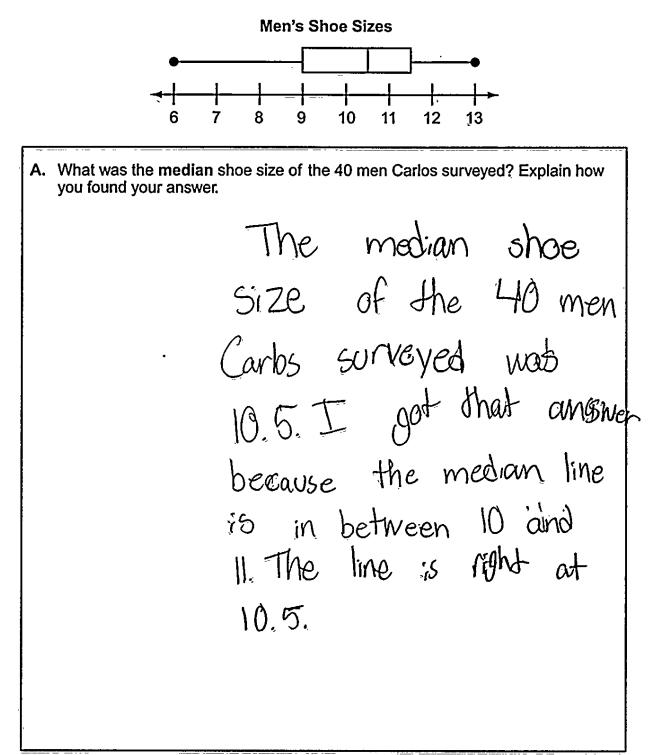
whisker from $11\frac{1}{2}$ to 13.

B. Explain why Martin is not correct. As part of your explanation, find the number of men with shoe sizes in each interval and describe how you found those numbers.

MArtin is not correct because first off the longer and bigger box isnt always the answer and because the fact that more men have those size feet has nothing to do with the fact that that is his answer.

P1-7

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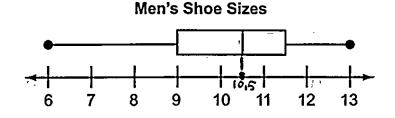


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Martin thinks more men have shoe sizes between 6 and 9 than between $11\frac{1}{2}$ and 13 because the whisker from 6 to 9 is longer than the whisker from $11\frac{1}{2}$ to 13. B. Explain why Martin is not correct. As part of your explanation, find the number of men with shoe sizes in each interval and describe how you found those numbers. Martin is incorrect because the line is only longer since the range from the lower quantile to the lower contreme is biller: than the ange of the upper quartile to he high extreme. 10 men have shoe sizes n botween each interval. Each interval in 25% so 25% of 40 is 10. rance the m 2500 x=10

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25. Carlos surveyed 40 men about their shoe sizes. Carlos made the box-and-whisker plot below to display his results.



A. What was the median shoe size of the 40 men Carlos surveyed? Explain how you found your answer. The median shoe size of the 40 men is 10.5 or 10 ±. How

I got my answer was by know that the line in the middle of the box was the median. So, what I did was draw a line down from the plot to touch the number line. As you can see from above, there is a line going down from the box to the number line. Since the line didn't go down and touch a whole number, I knew it was n't lo or 11. It was in between them, which was (0.9, this is how I know what the median is from the box and whicker plot.

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PSSA Math: Men's Shoe Sizes (Grade 6); Practice Set 1

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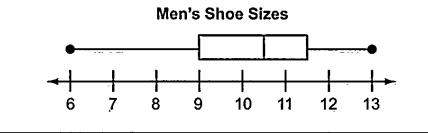
P1-8

25. Continued. Please refer to the previous page for task explanation.

Martin thinks more men have shoe sizes between 6 and 9 than between $11\frac{1}{2}$ and 13 because the whisker from 6 to 9 is longer than the whisker from $11\frac{1}{2}$ to 13. B. Explain why Martin is not correct. As part of your explanation, find the number of men with shoe sizes in each interval and describe how you found those numbers. Martin is not correct because when putting a whisker on a box and whisker ; plot, you hed to have the minimum value and the lower quartile. Cetting the lower quartile means you have to get the median of the 1st half of the numbers, and the median just so happened to be far away from the minimum value, which also shows that there were less men between c and 9, than between 112 and 13. The Minimum is 6. The maximum is 13, Lower quartile is 9. Upper quartile is 11.5, and the medianis 16.5. This is why Martin is not correct.

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- 25. Carlos surveyed 40 men about their shoe sizes. Carlos made the box-and-whisker plot below to display his results.



A. What was the median shoe size of the 40 men Carlos surveyed? Explain how you found your answer. median shoe size of the 40 The Carlos (hen surveyed is 10.5. Found my answer because know that in a box- andplot, the middle vertical the box is the median. in is case, the middle vertical the box is above the between 10 and 101 proving the median Shoe size for men Carlas surveyed

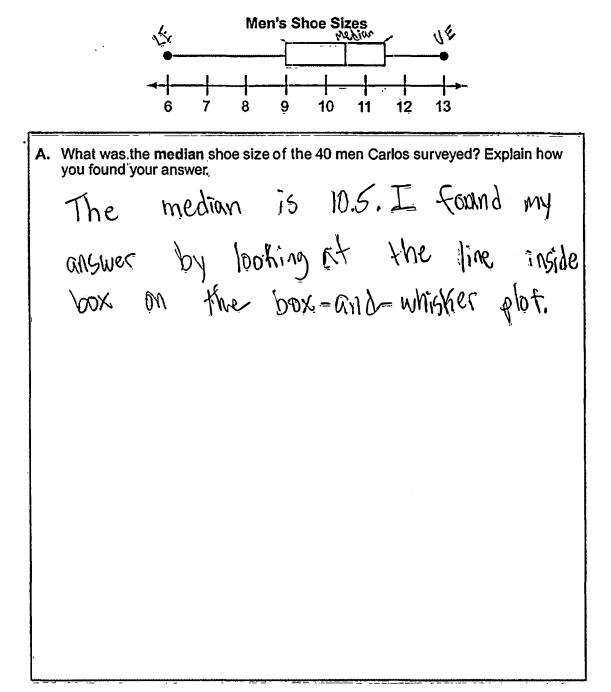
25. Continued. Please refer to the previous page for task explanation.

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B. Explain why Martin is not correct. As part of your explanation, find the number of men with shoe sizes in each interval and describe how you found those numbers.

tin is not correct because box-and-whisker plots it lartin in À mattler how big each nof section in the box represents data. In whisker each represent of the data, 10 ween Ŀ and 9 011 between 11-2 an and this out since are and 250/0 of men 10, ιS Ĵ

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74. Continued. Please refer to the previous page for task explanation.

Martin thinks more men have shoe sizes between 6 and 9 than between $11\frac{1}{2}$ and 13 because the whisker from 6 to 9 is longer than the whisker from $11\frac{1}{2}$ to 13. B. Explain why Martin is not correct. As part of your explanation, find the number of men with shoe sizes in each interval and describe how you found those numbers. theory the whicher from b to 9 is longer that doesn't mean there is nore mon with those shee sizes, there are 10 people that are a 6 to 9, and 10 people that are a 112 to 13. is not confect because Martin even

PRACTICE SET 1*

Subject: Math Item: Men's Shoe Sizes Grade: 6

Name_____

Number	Score	Consensus	Notes
P1-1			
P1-2			
P1-3			
P1-4			
P1-5			
P1-5			
P1-6			
P1-7	<u> </u>		1
P1-8			
P1-9			1
P1-10			

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