

—(Measures of Center and Variability	
Mean.	MAD.	
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Avyaan's math teacher explains that statisticians usually try to minimize the effects of outliers by excluding them when analyzing data. Avyaan wants to repeat his calculations after excluding the responses of his classmates who practiced 180 and 240 minutes. Would the mode change? How would the other measures of center and variability change in general?		
Circle v	which would change more.	
	median or mean range or IQR	

ANSWER KEY



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ANSWER KEY



 $\frac{0+30+40+40+40+60+60+90+180+240}{10} = \frac{780}{10} = 78$

Mean.

MAD.

78 – 0 = 78	78 – 60 = 18
78 – 30 = 48	78 – 60 = 18
78 – 40 = 38	78 – 90 = 12
78 – 40 = 38	78 – 180 = 102
78 – 40 = 38	78 – 240 = 162

<u>78 + 48 + 38 + 38 + 38 + 18 + 18 + 12 + 102 + 162</u> <u>55</u>

