

Spicy Question #22



I am thinking of 7 numbers.

One of the numbers is equal to $\sin(45^\circ)$

The median = mode = $\sin(60^\circ)$

The ratio of the lower quartile to the median to the greatest value is $1 : \sqrt{6} : \sqrt{10}$

The range = $\frac{5\sqrt{5} - \sqrt{10}}{10}$

The interquartile range = $\frac{4\sqrt{30} - 5\sqrt{2}}{20}$

The exact value of the product of all my numbers is $\frac{a\sqrt{15}}{b}$, where a and b are integers and $\frac{a}{b}$ is fully simplified.

Find the values of a and b .



NO Calculator

SUBMISSION DEADLINE 31/1/23 - 7PM

Video
Solution



All submissions to be emailed to 1stclassmaths@gmail.com

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