

Pre-Calculus Multiple Choice Questions - Chapter S3

- 1 A normal distribution is always centered on a group or population's
- a Mean
 - b Median
 - c Mode
 - d Standard Deviation

	S3.1
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- 1 A normal distribution's width is always dependent on a group or population's
- a Standard Deviation
 - b IQR
 - c Range
 - d Mean

	S3.1
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- 2 Approximately 95% of normally-distributed data is within _____ standard deviations of the mean
- a One
 - b Two
 - c Three
 - d Four

	S3.1
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- 3 The Attila Barbell Company makes bars for weight lifting. The weights of the bars are independent and are normally distributed with a mean of 720 ounces (45 pounds) and a standard deviation of 4 ounces. The bars are shipped 10 in a box to the retailers. The weights of the empty boxes are normally distributed with a mean of 320 ounces and a standard deviation of 8 ounces. The weights of the boxes filled with 10 bars are expected to be normally distributed with a mean of 7520 ounces and a standard deviation of

- a $\sqrt{12}$ ounces
- b $\sqrt{80}$ ounces
- c $\sqrt{224}$ ounces
- d 48 ounces
- e $\sqrt{1664}$ ounces

	S3.1
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Variable	N	Mean	Median	TrMean	St Dev	SE Mean
Score	50	1045.7	1024.7	1041.9	221.9	31.4

	S3.4
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Variable	Minimum	Maximum	Q1	Q3
Score	628.9	1577.1	877.7	1219.5

Some descriptive statistics for a set of test scores are shown above. For this test, a certain student has a standardized score of $z = 2.1$. What score did this student receive on the test?

- a 1511.69
- b 1111.64
- c 1491.69
- d 1107.84
- e 1782.42