# Solution to the Multiple Choice Question

To solve this problem, I need to calculate the sample mean and standard deviation of the given ACT scores.

First, I'll calculate the sample mean:

The sample mean is given by $\bar{x} = \frac{1}{n}\sum\_{i=1}^{n}x\_i$, where $n = 20$ is the sample size.

$\bar{x} = \frac{29 + 26 + 13 + 23 + 23 + 25 + 17 + 22 + 17 + 19 + 12 + 26 + 30 + 30 + 18 + 14 + 12 + 26 + 17 + 18}{20}$

$\bar{x} = \frac{417}{20} = 20.85$

Next, I'll calculate the sample standard deviation:

The sample standard deviation is given by $s = \sqrt{\frac{1}{n-1}\sum\_{i=1}^{n}(x\_i - \bar{x})^2}$

I'll compute the deviations from the mean and their squares:

- $(29 - 20.85)^2 = 66.42$

- $(26 - 20.85)^2 = 26.52$

- $(13 - 20.85)^2 = 61.62$

- $(23 - 20.85)^2 = 4.62$

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- $(25 - 20.85)^2 = 17.22$

- $(17 - 20.85)^2 = 14.82$

- $(22 - 20.85)^2 = 1.32$

- $(17 - 20.85)^2 = 14.82$

- $(19 - 20.85)^2 = 3.42$

- $(12 - 20.85)^2 = 78.12$

- $(26 - 20.85)^2 = 26.52$

- $(30 - 20.85)^2 = 83.72$

- $(30 - 20.85)^2 = 83.72$

- $(18 - 20.85)^2 = 8.12$

- $(14 - 20.85)^2 = 47.02$

- $(12 - 20.85)^2 = 78.12$

- $(26 - 20.85)^2 = 26.52$

- $(17 - 20.85)^2 = 14.82$

- $(18 - 20.85)^2 = 8.12$

Sum of squared deviations = 670.26

Therefore, $s = \sqrt{\frac{670.26}{19}} = \sqrt{35.28} = 5.94$

The sample mean is 20.85 and the sample standard deviation is 5.94.

The correct answer is (D) 20.85, 5.94.