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Chapter 23 – Investigative Task Sample Solution – SAT Performance

I want to determine the mean SAT-Math score at this college. I will take a simple random sample of 25 students by assigning a number 001-300 to each of the students, and then choosing 25 random numbers 001-300, ignoring repeats.

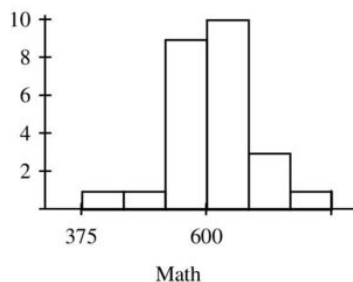
Plan – I want to find a 95% confidence interval for the mean SAT-Math score of all students at this college. I have data on the scores of 25 students, from a simple random sample of the 300 students at this college.

Model –

Randomization Condition: The students were chosen by a simple random sample.

10% Condition: 25 students represent less than 10% of the population of 300 students.

Nearly Normal Condition: The distribution of SAT-Math scores in the sample is unimodal and symmetric.



The conditions are satisfied, so I will use a Student’s *t*-model with $(n - 1) = 25 - 1 = 24$ degrees of freedom to find a one-sample *t*-interval for the mean.

Mechanics – From my sample of 25 students:
 $n = 25$ scores $\bar{y} = 602.8$ $s = 74.3034$

$$\bar{y} \pm t_{24}^* \times SE(\bar{y}) = 602.8 \pm 2.064 \left(\frac{74.3034}{\sqrt{25}} \right) = 602.8 \pm 30.672 = (572.13, 633.47)$$

Conclusion – I am 95% confident that the interval from 572.13 to 633.47 contains the true mean SAT-Math score for students at this college.

According to my confidence interval, students at this college had a higher mean SAT-Math score than students nationwide. The national mean of 503 was not included in my 95% confidence interval.

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