

# Download File PDF Ap Statistics Investigative Task Sat Performance Answers

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so many fake sites. this is the first one which worked! Many thanks

Grace  
March 21, 2013  
AP Statistics - Investigative Task  
SAT Performance

1. I will use a sample to investigate the mean score of the students at this high school.  
I will assign each of the 303 students in the graduating class a three-digit number and will randomly select a sample of 20 students using a random integer generator.  
I will label the students from 1 to 303 and randomly generate 20 numbers.  
The numbers I generated are:

73, 15, 161, 14, 59, 134, 31, 10, 147, 81, 144, 88, 101, 153, 96, 52, 59, 76, 119, 145

Number	SAT Math score
73	630
15	640
161	550
14	520
59	680
134	700
31	700
10	640
147	630
81	760
144	610
88	790
101	740
153	780
96	560
52	470
59	680
76	430
119	570
145	720

Mean =  $12850 / 20 = 642.5$

2. I wish to find a 95% confidence interval for the mean SAT Math score at this high school. I will use data from 20 students there.

Randomization Condition: The sample of 20 students was randomly chosen.  
10% Condition: 20 students are less than 10% of the 303 students of the class.  
Nearly Normal: The data are unimodal and roughly symmetric.

n = 20 students  
df = 19 degrees of freedom

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