

To enter a particular college course, candidates must complete an aptitude test. In 2010 the mean score was 490 with a standard deviation of 100. The distribution of the scores on the aptitude test is a normal distribution.

- (i) What percentage of candidates scored between 390 and 590 on this aptitude test?

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- (ii) One student scored 795 on this test. How does this student's score compare to the rest of the scores?

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- (iii) The college admits only students who were among the highest 16% of the scores on this test. What score would a student need on this test to be qualified for admission to this college? Explain your answer.

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