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STATS MEAN MEDIAN MODE

2001   16. The mean of three numbers is 10 more than the least of the numbers and less than the greatest. The median of the three numbers is 5. What is their sum?

(A) 5   (B) 20   (C) 25   (D) 30   (E) 36

2007B   16. A teacher gave a test to a class in which 10% of the students are juniors and 90% are seniors. The average score on the test was 84. The juniors all received the same score, and the average score of the seniors was 83. What score did each of the juniors receive on the test?

(A) 85   (B) 88   (C) 93   (D) 94   (E) 98

2010B   17. Every high school in the city of Euclid sent a team of 3 students to a math contest. Each participant in the contest received a different score. Andrea's score was the median among all students, and hers was the highest score on her team. Andrea's teammates Beth and Carla placed 37th and 64th, respectively. How many schools are in the city?

(A) 22   (B) 23   (C) 24   (D) 25   (E) 26

2005B 19. On a certain math exam, 10% of the students got 70 points, 25% got 80 points, 20% got 85 points, 15% got 90 points, and the rest got 95 points. What is the difference between the mean and the median score on this exam?

(A) 0   (B) 1   (C) 2   (D) 4   (E) 5

2005B 20. What is the average (mean) of all 5-digit numbers that can be formed by using each of the digits 1, 3, 5, 7, and 8 exactly once?

(A) 48000   (B) 49999.5   (C) 53332.8   (D) 55555   (E) 56432.8