UNIT 9 QUESTIONS 16-20

STATS

2013A 16. A, B, and C are three piles of rocks. The mean weight of the rocks in A is 40 pounds, the mean weight of the rocks in B is 50 pounds, the mean weight of the rocks in the combined piles A and B is 43 pounds, and the mean weight of the rocks in the combined piles A and C is 44 pounds. What is the greatest possible integer value for the mean in pounds of the rocks in the combined piles B and C?

(A) 55   (B) 56   (C) 57   (D) 58   (E) 59

2007B 17. If a is a nonzero integer and b is a positive number such that $ab^2 = \log_{10} b$, what is the median of the set $\{0, 1, a, b, 1/b\}$?

(A) 0   (B) 1   (C) a (D) b (E) $\dfrac{1}{b}$