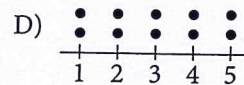
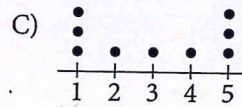
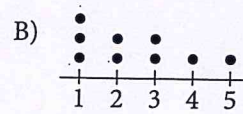
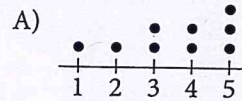




ALG PSAT/SAT practice Thur, March 26, 2020
2

26

Which of the following dot plots represents a data set for which the mean of the values is greater than the median of the values?



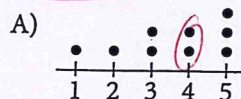


PSAT/SAT practice Thur, March 26, 2020

Answers

26

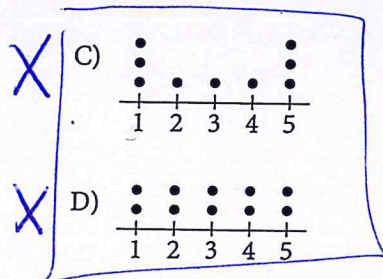
Which of the following dot plots represents a data set for which the mean of the values is greater than the median of the values?



median = 4
mean = $\frac{32}{9} \approx 3.56$



median = 2
mean = $\frac{22}{9} \approx 2.44$



these have a symmetric distribution around the middle therefore mean = median

Sum of 9 #'s:
 $1+2+3+3+4+4+5+5+5 = 32$

9 items
median is 5th item

Sum of 9 #'s:
 $1+1+1+2+2+3+3+4+5 = 22$

For choice A: median = 4 $\therefore$ mean = 3.56
mean < median

for choice B: median = 2 $\therefore$ mean = 2.44
mean > median

B is the answer