

GMAT数学精解--算术概述(3) PDF转换可能丢失图片或格式  
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5\_B0\_E5\_AD\_A6\_c89\_165111.htm 八.描述统计(DESCRIPTIVE

STATISTICS) 1.平均数(AVERAGE OR ARITHMETIC MEAN)

2.中数(MEDIAN) TO CALCULATE THE MEDIAN OF N

NUMBERS , FIRSTSGROUPSTHE NUMBERS FROM LEAST

TO GREATEST ; IF N IS ODD , THE MEDIAN IS DEFINED AS

THE MIDDLE NUMBER , WHILE IF N IS EVEN , THE

MEDIAN IS DEFINED AS THE AVERAGE OF THE TWO

MIDDLE NUMBERS. FOR THE DATA 6, 4, 7, 10, 4, THE

NUMBERS, IN ORDER, ARE 4, 4, 6, 7, 10, AND THE MEDIAN

IS 6, THE MIDDLE NUMBER. FOR THE NUMBERS 4, 6, 6, 8, 9,

12, THE MEDIAN IS  $(6 + 8) / 2 = 7$ . NOTE THAT THE MEAN OF

THESE NUMBERS IS 7.5. 3.众数(MODE) : 一组数中的众数是

指出现频率最高的数。 例 : THE MODE OF 7 , 9 , 6 , 7 , 2

, 1 IS 7。 4.值域(RANGE) : 表明数的分布的量 , 其被定义为

最大值减最小值的差。 例 : THE RANGE OF 1 , 7 , 27 , 27

, 36 IS  $36 - (-1) = 37$ 。 5.标准方差(STANDARD DEVIATION) :

ONE OF THE MOST COMMON MEASURES OF DISPERSION

IS THE STANDARD DEVIATION. GENERALLY SPEAKING,

THE GREATER THE DATA ARE SPREAD AWAY FROM THE

MEAN, THE GREATER THE STANDARD DEVIATION. THE

STANDARD DEVIATION OF N NUMBERS CAN BE

CALCULATED AS FOLLOWS: (1)FIND THE ARITHMETIC

MEAN . (2)FIND THE DIFFERENCES BETWEEN THE MEAN

AND EACH OF THE  $N$  NUMBERS . (3) SQUARE EACH OF THE DIFFERENCES . (4) FIND THE AVERAGE OF THE SQUARED DIFFERENCES . (5) TAKE THE NONNEGATIVE SQUARE ROOT OF THIS AVERAGE. NOTICE THAT THE STANDARD DEVIATION DEPENDS ON EVERY DATA VALUE, ALTHOUGH IT DEPENDS MOST ON VALUES THAT ARE FARTHEST FROM THE MEAN. THIS IS WHY A DISTRIBUTION WITH DATA GROUPED CLOSELY AROUND THE MEAN WILL HAVE A SMALLER STANDARD DEVIATION THAN DATA SPREAD FAR FROM THE MEAN.

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