



SAT数学

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2.5 Center, Spread, and Shape of Distributions

1. Mean (平均数):

The arithmetic mean (or simply "mean") of a sample X1,X2,...,Xn, usually denoted by, is the sum of the sampled values divided by the number of items in the sample.



- 2.5 Center, Spread, and Shape of Distributions
- 2. Median(中位数):

a median is the number separating the higher half of a data sample, a population, from the lower half. The median of a finite list of numbers can be found by arranging all the observations from lowest value to highest value and picking the middle one. For example, the median of {3, 3, 5, 9, 11} is 5; the median of $\{3, 5, 7, 9\}$ is (5 + 7) / 2 = 6.



- 2.5 Center, Spread, and Shape of Distributions
- 3. Mode(众数):

The mode of a sample is the element that occurs most often in the collection.





2.5 Center, Spread, and Shape of Distributions

4. Range(极差):

The range of a sample is the difference between the biggest element and the smallest element.



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5. Variance (方差): 其中n为样本容量, x为样本平均值

$$s^{2} = \frac{1}{n}[(x_{1} - x)^{2} + (x_{2} - x)^{2} + \dots + (x_{n} - x)^{2}]$$



- 2.5 Center, Spread, and Shape of Distributions
- 6. Standard Deviation (标准差):

标准差 s是方差的算数平方根。同样用来衡量数据的离散程度。 数据越集中, 标准差和方差越小; 越离散, 标准差和方差越大。

$$s^{2} = \frac{1}{n}[(x_{1} - x)^{2} + (x_{2} - x)^{2} + \dots + (x_{n} - x)^{2}]$$





1.The mean score of 8 players in a basketball game was 14.5 points. If the highest individual score is removed, the mean score of the remaining 7 players becomes 12 points. What was the highest score?

A.20

B.24

C.32

D.36





2.	Electoral votes	Frequency
	10	4
	11	4
	12	1
	13	1
	15	3
	17	1
	20	1
	21	2
	27	1
	31	1
	34	1
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Based on the table, what was the median number of electoral votes for the 21 states?





3.	State	Percent of residents
	State A	21.9%
	State B	27.9%
	State C	25.9%
	State D	19.5%
	State E	30.1%
	State F	36.4%
	State G	35.5%

What is the difference between the median percent of residents who earned a bachelor's degree or higher for these 7 states and the median for all 50 states?

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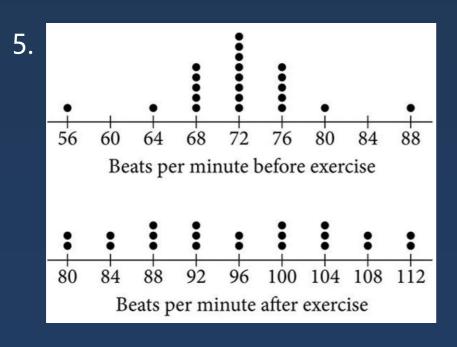
4.	Age	Frequency
	18	6
	19	5
	20	4
	21	2
	22	1
	23	1
	30	1

A.mode < median < mean B.mode < mean < median C.median < mode < mean D.mean < mode < median

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A.S1=S2 and $r_1=r_2$ B.S1<S2 and $r_1<r_2$ C.S1>S2 and $r_1>r_2$ D.S1 \neq S2 and $r_1=r_2$

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6.	Number of days	Number of employees		
	0	8		
	1	4		
	2	3		
	4	4		
	5	5		
	13	1		

What is the median number of days absent for the 25 employees last month?

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7.		1	2	3	4	5	Total
	Adult	13	35	103	82	17	250
	Children	6	22	27	70	25	150
	Total	19	57	130	152	42	400

How does the median rating of the adults who saw the movie compare to the median rating of the children who saw the movie?

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Thanks

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