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Anscombe's Quartet - x, Replication

<u> </u>	[3]	<u>[4]</u>	191
	V	<u> </u>	(x-x)2
<u> </u>	<u> </u>		
4.0	9.0	-5.0	25.0
		_	

$$5^2 = \frac{2(x-\bar{x})^2}{n-1} = \frac{1/0}{1/-1} = \frac{1/0}{10} = 11$$

191 Question 3 - Standard deviation

$$S = \sqrt{\frac{\xi(x-\overline{x})^2}{n-1}} = \sqrt{11} = 3.3166247904 = 3.31T$$

The inter quarte raye for X, is 5.0

The standard deviation of x, is 3.317.

The range of x, is 10.0.

[] SS=2(x-x)=110 11.5-6.5=5.0 $median = \frac{n+1}{2} = \frac{11+1}{2} = \frac{12}{2} = 6^m$ observation

The 6th obs tran-when a ow to 1 is 9.0

3 Overtin @ mean

$$\bar{x} = \frac{\xi_{,1}^{n} \times}{n} = \frac{4+5+6+7+8+9+10+}{11} = \frac{99}{11} = 9.0$$

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Inscombes Quartet - YI Replication

1	ics Quartet"	Al replication	1
thecom	ne 5 Quartet -	国	الما الما
J	13	<u> </u>	(x-x)2
×	×	•	10.503491734
4.26	7.500909091	-3.24090709	7.187273554
11.82	7.500909091	-2.68090909	
5,68	7.500909091	-1.82090909	3.315709417
6.95	7,500909091	-0.55090709	9303500826
7,24	7,500909091	-0.26090909	0,068073554
7.58	7,500909091	0.07909091	0.006255372
8.04	7.500909091	0.53909091	0.290619008
8.33	7.500909091	0.82909091	0.687391736
_	7,500909091	1.30909091	1,713719008
8.81		2.45909091	6017128099
9.96	7,500909091	7,35909091	11149528099
10.84	7,500909091		-1= 41 777 680509
	国际	i=12= 0.0	-2= 41,272690909
	-	اسما	

$$5^2 = \frac{2(x-\bar{x})^2}{n-1}$$

$$S = \sqrt{\frac{2(x-\overline{x})^2}{n-1}}$$

2 Quartion (D)

$$Mrdian = \frac{n+1}{2} = \frac{11+1}{2} = \frac{12}{2} = 6^{rh} observation$$

The 6th observation - when archard low to highis 7,58.

The student devenor of y, is 2.032

1 Question 3

Question
$$\textcircled{D}$$

$$\overline{X} = \frac{2x}{n} = \frac{4.26 + 4.82 + 5}{11}$$

$$\overline{X} = 7.500 c 0$$

The mean of y, is 7.501.

10) Question & - 12ansc