Poll No: 192-1196  ubject: Statistics & probability  eacher: Six Mubashar Qayyum	No: 192-1196  Lect: Statistics of probability  her: Six Mubashar Qayyum  nment # 1	Name:	Zaeem yousaf
eacher: Six Mubashar Qayyum	her: Statistics & probability her: Six Mubashar Qayyum nment #1		
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edion: 4A (BSCS)		ection:	AA (BSCS)

Data L	Data2 most
Heights of 50 men of Indonasia taken from internet and the 50 observations are following  5.39, 5.37, 5.29, 5.5, 5.57, 6.2, 4.94, 4.99, 5.6, 6.2, 5.1, 5.2, 5.9, 5.7, 5.32, 5.28, 5.17, 4.91, 5.88, 5.6, 5.7, 5.24, 5.29, 5.5, 5.27, 6.2, 4.95, 4.99, 5.6, 6.2, 5.18, 5.9, 5.9, 5.9, 5.9, 5.9, 5.9, 5.9, 5.9	Heights of So' men of pakistan. Data taken from internet. The observation are as under.

		5.82	-
Mean => $\frac{2x}{n} = \frac{27453}{50}$	1.160(1)	2,8%	P.5
Median = [51]th value	median	5.74	
= 5.50. 5.50 GL [51]th value 5.21	Ø1	5.49	
<b>G2</b> [51]th value 5.50	Ġ2	5.74	
G3 [3 x S1] th value 5.67		6.09	
Par [90 (51)] th = 46th from Sorter		6.59	
Pro [10 (51)]th 5th value 4.95	Pio	5.27	

Data 1 constant	pato 2
Sd	sd
$= \frac{1}{2} \left( \frac{x - x}{x} \right)^2$	5(x-x) = 11.17
$= \pm (x - \bar{x})^{2} = 7.61$ $= \sqrt{x} = \pm (x - \bar{x})^{2} = 0.15$ $= 50$	$\frac{2(x-\bar{x})}{50} = \frac{11.17}{50}$
(92	Var - 0.22
Sd = 0.15 = 0.39	$Sd = \int 0.22 = 0.47$
4,9	
319	2.2.2.4.4.6.776.2017

Q2 Coefficient of variation CV= 5 Data 1 Data 2 5.82 (v of poda 2 (0.08) has greater dispersion around mean which shows that pakistani have more versatile height as companed to indonesian who are almost even heighted.

Q2 Karl pearson coefficient of skewness Data 1 = 3 (mean-median) =3(5.49-5.50)Both value (-0.08) and (0.5) are near zero which show that heights of Men from Indonesia - and pakistant are almost normaly distribute distributed, However, Data 2 18 Slighty trely skewed, pata 1 -vely skewed

Q3 Bowlegy's coefficient of skewness
$S_{KQ} = (Q_3 + Q_2) - Q(Q_2 - Q_1)$
Q3 Q1
Data 1 Data 2
$\frac{(5.67-5.5)-(5.50-5.21)}{5.67-5.21} \frac{(6.09-5.74)-(5.74-5.49)}{(6.09-5.49)}$
= -0.26 = 0.17
As thank pearson's result, Data 1 is slighty
-vely skewed while pata 2 is tely
Spewed. The graph of both para will look
almost normal.

Q4 percendile Cot	exicient of Kustosis
	$O \cdot D = \underbrace{O_3 - O_1}_{Z}$
Dovta 1	pota 2
0.0 = 5.67 - 5.21	0.D = 6.09 - 5.49
= 0.23	= 0.3
1 - 1 = 0.23 = 0.18 $6.2 - 4.95$	0·3 - 0·23 (6·59-5·27)
	pat 1 & Data 2
	Platy-Kurtéc

Cofficient of 1kurto 8is of Dival (0.18) and data 2 (0.23) lie between 0-0.5 which show that both Data have mormal distribution. Conclusion: Omean of Data 1 is smaller than pata 2 which shows that on average pakistani are taller than indonesion. O Greater Standard deviation of and coefficient of variation' of poda 2 show that there variety of heights in pakistan. (3) Karl pearson's coefficient of skewness and Bowley's coefficient of skewness show that Both data are almost normally distributed with minor skewness

in opposite direction.
Descentile coefficient of Kurtosis' of
both data fall in range 0-0.5 which claim that both data have
normal distribution.
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