Q#1-	Suppose the test scores of 10 Students	
	are: 85,92,78,82,90,87,80,85,88,84	
	Solution	
+	Mean = (85+92+78+82+90+87+80+85,88	
	+84)/10	
	Mean = 85	
ł	Median	
	78,80,82,84,85,85,87,88,90,92	
		1000
	Median = $85+85 = 85$	
	2	
f	Mode	
	185] as it appears the most	
,		

Q#2-	Suppose heights in (cm) of 8 people are:	
	165,172,168,160,175,162,170,168	7
3		
> +	Range:-	-
	175-160 = 15	-
4	Range = 15cm	
3		
3 +	Variance	
9	Mean height = (165+172+168+160+175+162+	
9	170+168)/0	
	Mean = 167.5cm	
9	Deviations: 2.5,4.5,0.5,-1.5,1.5,-s.s	
	2.5,0.5	
غ)	Squared Deviations:-	
9	6.25,20.25,0.25,56.25,56.25,	
9	30.25,6.25,0.25	
ا ا		
	Average of 172 deviations	
3	(6.25+20.25+0.25+56.25+56.25+	
	30.25+6.25+0.25)/8	
	= 22.5 variance = 22.5	

Standard Deviation

= N Wriance

= N22.5

St& Dev= 4-74cm



Q#3-	Suppose a fair coin is Hipped 10	
	times, what is the probability of	
	getting exactly 4 heads?	
+	If it follows a success	
	D = Q, O = n	
	P(X=4) = (10(4) x 0.5 x 0.56)	
	P(X=4) = 0.2050	

D#U	The heights of Adult males in a	
	population follow a normal distribution	
	with a mean 175 m and Standard	
	Deviation of 7 cm.	
9	Solution	
(a)	Find the probability that a	
)	randomly selected adult male has a	
)	height between 168cm and 182 cm.	
	2 = (168-175) = 1-1	
	7	
	z = (182-175) = 1	
	7	
	Prob = 0.6826	
		Ward Care Care

Q#5- A fair coin is flipped 10 times. What is the probability of getting exactly 6 heads? Solution P(x=6)=10(6 x 0.56 x 0.54 P(x=6) = 0.2109



		-
Q#6-	The number of customer arrivals	
	at a bank during a given hour	
	follows a Poisson Distribution with	
	a mean of 20 customers perhour	
	Solution	
	1-20, x=15	
	$P(x=15) = (e^{-20} \times 20^{15})$	
	15!	
	P(x=15) = 0.0 699	