

Compute Mean, Mode, Range, S.D., Q_1, Q_2, Q_3 , P_{10} , P_{90} , Q.D., C.V., $S_k(P)$ and K from given data.

22 35 50 20 17 15 35 50 48 33 31

Solution:- Calculation of various values

<u>For</u>	<u>Value</u>	<u>Formula</u>	<u>For</u>	<u>Value</u>	<u>Formula</u>
Mean =	32.363636	=AVERAGE(A3:K3)	Range =	50.2034	=B12-H12
Mode =	35	=MODE(A3:K3)	Q.D.=	10.25	=(B16-B14)/2
X_s =	15	=MIN(A3:K3)	C.V. =	40.056	=B13/B9*100
X_L =	50	=MAX(A3:K3)	$S_k(P)$ =	-0.2034	=(B9-B10)/B13
S.D.=	12.963585	=STDEV(A3:K3)	K=	0.31061	=(B16-B14)/(2*(B18-B17))
Q_1 =	21	=QUARTILE(A3:K3,1)	$S_k(B)$ =	-0.1707	=(B16 + B14 - 2*B15)/(B16 - B14)
Q_2 =	33	=QUARTILE(A3:K3,2)			
Q_3 =	41.5	=QUARTILE(A3:K3,3)			
P_{10} =	17	=PERCENTILE(A3:K3,0.1)			
P_{90} =	50	=PERCENTILE(A3:K3,0.9)			

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