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.

10	9	14	35	41	37	25	40	25	36	35
22	35	50	8	17	22	35	50	48	33	31

Solution: - Calculation of various values

<u>Value</u>	<u>Formula</u>	<u>For</u>	<u>Value</u> <u>Formula</u>
29.909091	=AVERAGE(A3:K4)	Range =	50.3962 =B12-H12
35	=MODE(A3:K4)	Q.D.=	7.375 = (B16-B14)/2
8	=MIN(A3:K4)	C.V. =	42.965 =B13/B9*100
50	=MAX(A3:K4)	$S_k(\mathbf{P})=$	-0.3962 =(B9-B10)/B13
12.850455	=STDEV(A3:K4)	K=	0.19986 =(B16-B14)/(2*(B18-B17))
22	=QUARTILE(A3:K4,1)	Sk(B)=	-0.6271 =(B16 + B14 - 2*B15)/(B16 - B14)
34	=QUARTILE(A3:K4,2)		
36.75	=QUARTILE(A3:K4,3)		
10.4	=PERCENTILE(A3:K4,0.1)		
47.3	=PERCENTILE(A3:K4,0.9)		
	29.909091 35 8 50 12.850455 22 34 36.75 10.4	29.909091 = AVERAGE(A3:K4) 35 = MODE(A3:K4) 8 = MIN(A3:K4) 50 = MAX(A3:K4) 12.850455 = STDEV(A3:K4) 22 = QUARTILE(A3:K4,1) 34 = QUARTILE(A3:K4,2) 36.75 = QUARTILE(A3:K4,3) 10.4 = PERCENTILE(A3:K4,0.1)	29.909091 = AVERAGE (A3:K4) Range = 35 = MODE (A3:K4) Q.D.= 8 = MIN (A3:K4) C.V. = 50 = MAX (A3:K4) S _k (P)= 12.850455 = STDEV (A3:K4) K= 22 = QUARTILE (A3:K4,1) Sk(B)= 34 = QUARTILE (A3:K4,2) 36.75 = QUARTILE (A3:K4,3) 10.4 = PERCENTILE (A3:K4,0.1)

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