Instantaneous Repeatability calculation worksheet

Gage _____ Date _____ Inspector _____

Part# _____ Spec _____ Total Tolerance _____

Part	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Trial 6	Trial 7	average (x̄)	range (R)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
Trial avg									

K1=.887	K1=.591	K1=.486	K1=.430	K1=.395	K1=.370

	Avg range		R̄
	×		K1
	Ó=		
	×		3
	3Ó=		

Optional trend graph

trial avg, part avg, & graph optional

K1 based on d2factors by AJ Duncan

%P/T = ((6xó) / total tolerance) x 100

%P/T = ((6x_____) /_____) x 100=_____

%P/T should be 10% or less, smaller is better