

MATH 329 Quality Control and Acceptance Sampling.

ASSIGNMENT ONE

Construct a control chart for the mean \bar{x} and the range (R) for the following data based on the production of fuses where samples of 5 being taken every hour. Comment on whether the production is under control or not assuming that these are the first sets of data.

samples	Hours												
	1	2	3	4	5	6	7	8	9	10	11	12	
	1	41	41	19	36	41	50	61	18	14	69	65	60
	2	66	46	24	53	52	74	61	20	31	109	89	79
	3	76	68	80	70	57	75	72	27	39	112	93	94
	4	77	78	81	78	66	78	94	41	61	119	110	119
	5	88	91	82	83	77	131	137	61	85	153	111	135