

## 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.

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