AQS200 – Root Cause
Exercise 8c
Problem Cause Data Analysis – Scatter Diagram

Name: _____   Date: _____

Instructions:

1. Create two scatter diagrams, one for the white bead results and one for the red bead results.

Steps

An experiment to demonstrate the variability associated with sampling was set-up using white beads and red beads.   The results are listed in the table on page 2. Create a scatter diagrams to determine if there are any patterns associated with either color.

1. Beginning with the white beads place a dot on the grid (page 3) corresponding to the number value in the column.
   a) Is there a pattern?   If yes, what is the trend? Discuss possibilities regarding the trend.

2. Repeat with the red bead data, placing a dot on the grid (page 4) corresponding to the number value in the column.
   a) Is there a pattern? If yes, what is the trend? Discuss possibilities regarding the trend.

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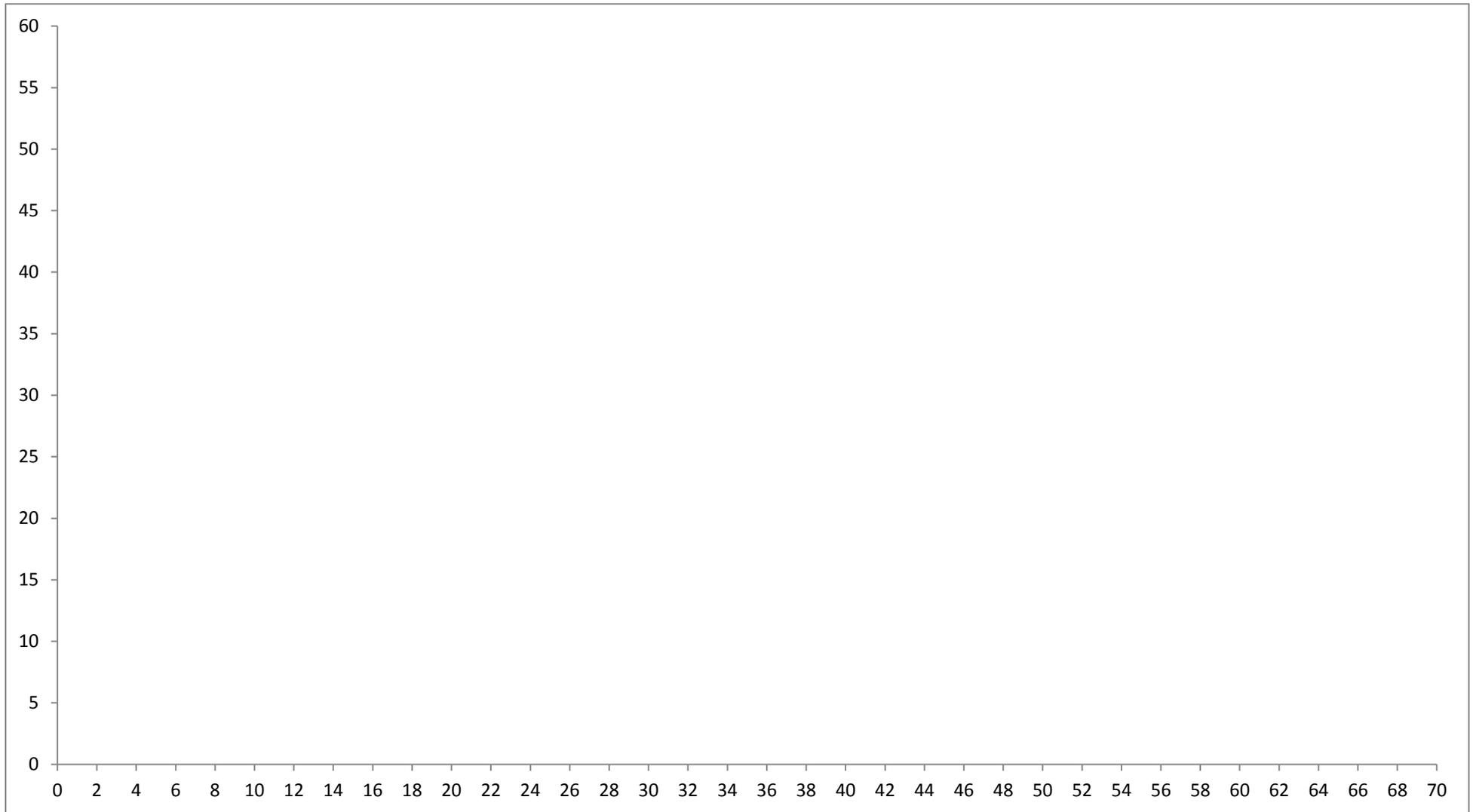Bead Sampling Results

group	white	red	group	white	red
B	15	0	A	46	2
B	20	2	A	48	9
A	18	1	A	45	5
B	47	7	B	18	1
A	18	6	B	18	5
B	18	0	B	45	3
A	19	0	B	16	3
A	45	2	A	41	2
A	19	1	A	43	1
B	45	0	B	47	3
A	43	0	B	17	2
B	20	1	A	48	1
A	17	1	B	44	4
B	44	2	B	18	2
A	45	2	A	19	4
B	18	0	B	47	2
A	18	0	B	43	2
B	18	7	A	45	0
A	18	2	B	46	1
B	17	5	A	47	1
B	47	1	A	46	4
B	46	0	B	44	2
B	46	1	A	44	3
A	48	2	B	46	4
A	48	2	A	18	2
A	45	0	B	20	2
A	14	4	B	18	1
B	20	3	A	44	4
B	17	5	B	20	4

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WHITE BEADS

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RED BEADS