

A diabetes dataset is collected and a study is performed to predict the catheter length. This dataset includes quantitative measure of catheter length and some factors such as gender, weight and height. Please use this dataset to answer Question 1, 2 and 4. Answer all the questions by using Microsoft Excel software.

Gender	Height (inches)	Weight (pounds)	Catheter length (cm)
1	42.8	40	37
2	63.5	93.5	50
1	37.5	35.5	34
1	39.5	30	36
1	45.5	52	43
2	38.5	17	28
2	43	38.5	37
1	22.5	8.5	20
2	37	33	34
2	23.5	9.5	30
1	33	21	38
2	58	79	47
2	40	42	42
2	52	60	44
1	39	32	32
2	44	40	38
1	25	9.5	31
1	59	78.5	46
1	56	75.5	47

Gender: 1 = Female, 2 = Male

The following set of data values was obtained from a study of people's perceptions on whether the colour of a person's clothing is related to how intelligent the person looks. The subjects rated the person's intelligence on a scale of 1 to 10. Group 1 subjects were randomly shown people with clothing in shades of blue and grey. Group 2 subjects were randomly shown people with clothing in shades of brown and yellow. Group 3 subjects were randomly shown people with clothing in shades of pink and orange. The results follow:

Group 1	Group 2	Group 3
8	7	6
7	8	7
7	7	9
7	7	8
8	5	5
8	8	8
6	5	7
8	8	5
8	7	4
7	6	5
7	6	4
	6	