MULTIVARIATE ANALYSIS

1. The following table shows for each of 18 cinchona plants the yield of dry bark (in oz.), the height (in inches) and the girth (in inches) at a height of $6''$ from the ground. Fit a multiple linear regression model to the data.

Plant no.	Yield of dry bark (oz.)	Height (in.)	Girth at a height of $6''$
1	19	8	4
2	51	15	5
3	30	11	3
4	42	21	3
5	25	7	2
6	18	5	1
7	44	10	4
8	56	13	6
9	38	12	3
10	32	13	4
11	25	5	2
12	10	6	3
13	20	4	4
14	27	8	4
15	13	7	3
16	49	12	5
17	27	6	3
18	55	16	7