



TableCraft Inc.



**Industrial Rd
London SW24 8OU
UK**

Dear Sir/Madam,

At Table Craft Inc. we construct tables of the highest quality. After recent market research we have decided to add a new table to our range. We have recently been informed that your group has great ability in mathematics and would therefore be ideal for the task of producing a design for this project.

The Project:

- We need designs for a cost effective family table
- It must normally be able to seat 5 people eating a family meal
- It must extend so that 8 or 10 people can eat around it on special occasions
- We must have drawings for the plan and elevation of the table including all measurements necessary for us to make the table in our factory
- You must prepare a short report showing the details of your design and explaining its main features. Parts of this will be used in our promotional materials.

We are currently in contact with several other groups to complete this project. Your report and design will be considered against those from other groups in the competition for this contract.

We look forward to seeing your design soon.

Yours sincerely,

Adam Sheraton

Mr. Adam Sheraton

Managing Director

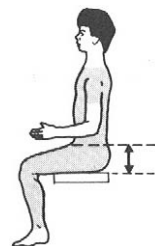
Table Craft Incorporated

Design a table: Information sheet A

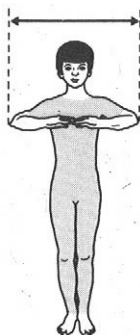
1 Shoulder breadth



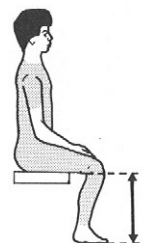
5 Thigh clearance



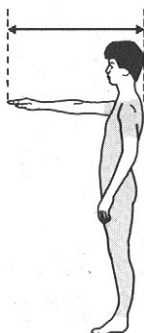
2 Elbow span



6 Kneeback height



3 Horizontal forward reach



7 Buttock-knee length



4 Elbow-fingertip length



8 Hip breadth



Design a table: Information sheet B

Table 1 Body measurements for adult women

Body dimension	Size in millimetres		
	5th percentile	50th percentile (median)	95th percentile
1 Shoulder breadth	370	415	460
2 Elbow span	815	890	960
3 Horizontal forward reach	665	725	785
4 elbow fingertip length	405	440	475
5 Thigh clearance	105	140	170
6 Kneeback height	380	415	450
7 Buttock knee length	520	570	620
8 Hip breadth	320	375	430

Table 2 Body measurements for adult men

Body dimension	Size in millimetres		
	5th percentile	50th percentile (median)	95th percentile
1 shoulder breadth	415	460	500
2 Elbow span	880	960	1040
3 Horizontal forward reach	715	780	850
4 Elbow fingertip length	430	470	510
5 Thigh clearance	125	150	175
6 Kneeback height	400	440	480
7 Buttock knee length	540	595	645
8 Hip breadth	315	360	400