



**Test # 2 - Section XBG**

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Grade

$\frac{Q1}{2}$	$\frac{Q2}{2}$	$\frac{Q3}{2}$	<b>Total / 6</b>
1.8	2	1.6	5.4



**"Design a supermarket trolley"**

For the above problem statement, you are required to do the following:

- 1- Draw the design process triangle, assume the suitable counterparts i.e. state who maybe the client, the user and the designer in this problem. **(0.8 Point)**
  - If the counterparts that make the design process triangle become a straight line, state who they might be. **(0.5 Point)**
  - If the counterparts that make the design process triangle become a point, state who could it be. **(0.5 Point)**
- 2- As a designer, what would be your **four** most important questions to the client? (2 Points)
- 3- As a designer, you should be prepared for the client's questions in the above task. What are the **four** most important questions you expect the client might ask? (2 Points)

**Start by renaming the file.** Replace each 0 in the file name by the appropriate number. It appears twice: Test # 2 – S2015 XBG - T0 M0. Do not make any other changes in the file name.

**Solution of what?**

**Design process triangle:**

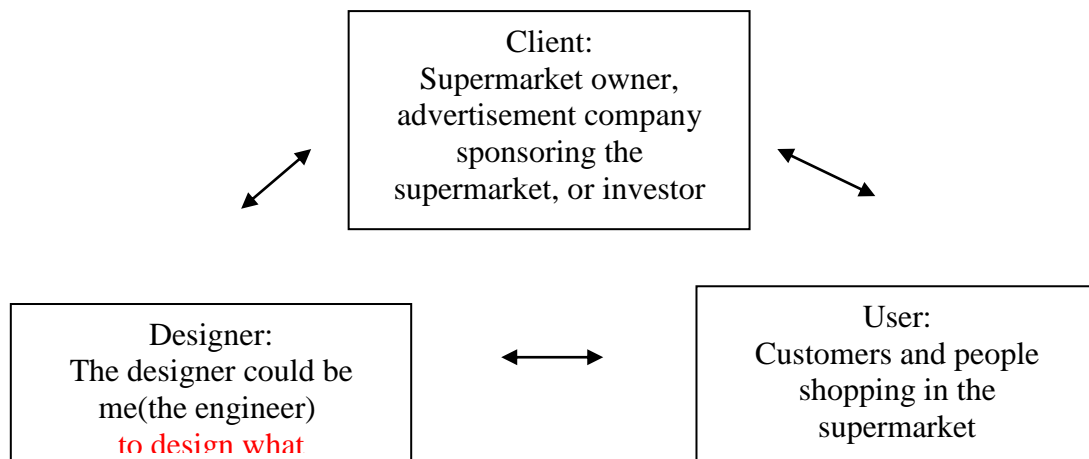
**Planing:** to specify the objectives, define the problem, and decide how to achieve it objective within specified constraints: to design a supermarket trolley by knowing all the specifications required to meet the client's and user's needs

**Organizing:** to organize my resosources and decide when each part of the trolley is going to be finished

**Leadership:** motivate and assign tasks to team members

**Controlling:** Monitor the progress in my design to ensure that the trolley will be designed, tested, evaluated by the time of the deadline

1-



- **Straight line:**
  - o Client:supermarket owner
  - o Designer: the engineer (me)
  - o User: engineer (me) who needs the trolley to shop in the supermarket
- **Point:**
  - o Client: supermarket owner is an engineer (me)
  - o Designer: the engineer (me)
  - o User: the engineer shopping in the supermarket (me shopping)

2- The four most important questions to the client:

- What is the budget? 0.5
- When is the deadline? 0.5
- What are the specifications, attributes, and objectives? 0.5
- Who is the user? 0.5

3- The four most important question I expect the client to ask:

- How much will you charge? 0.3 already covered
- What are your capabilities, experience, and skills? 0.5
- Are there any safety or environmental regulations 0.5
- Do you work with deadlines or how long will it take you to finish? 0.3 already covered