

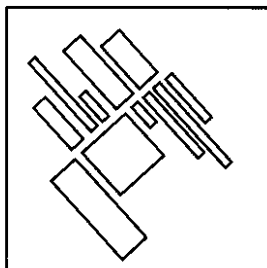
## EE 4213 Human-Computer Interaction

Semester A 2008-2009

### Assignment 2

Due Date: 6 November 2008 on Week 10

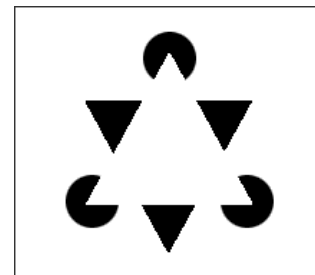
1. Three pictures are shown in Figure 1. Each of them illustrates one Gestalt principle. State the Gestalt principle for each of the figures and briefly explain your answers.



(a)



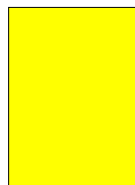
(b)



(c)

Figure 1

2. In a card system, each card has a color on one side and a number on the other side. Consider the following statement **S**: "If a card has an odd number on one side, it has a yellow color on the other side". Six cards of the system are shown in Figure 2.



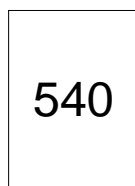
Card #1



Card #2



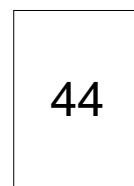
Card #3



Card #4



Card #5



Card #6

Figure 2

- (a) Which card(s) should be chosen in order to check the statement **S**? Explain.
- (b) Repeat (a) if the restriction that each card has a color on one side and a number on the other side is removed, i.e., a card can have color or number on both sides.

3. Suppose after dialling to an automated phone banking hotline, the system says the following:

*Which service do you want?*

*Press “#” to repeat the options*

*Press “1” for foreign currency rate inquiry*

*Press “2” for account balance inquiry*

*Press “3” for fund transfer*

*Press “4” for investment services*

*Press “5” to talk to our customer service representative*

Suggest two improvements for the system and briefly explain your answers.

4. A Hong Kong company is planning to develop a digital camera with built-in global positioning system (GPS) unit which records the location (i.e., latitude and longitude) of shots as “geotags”. A similar product in the market is Nikon CoolPix P6000.
- (a) Suggest one key functional, data, environment, user and usability requirement for this system.
- (b) Write a scenario of photograph taking with this system.
- (c) Write out a use case for taking a photograph using this system.