

Introductory Statistics Tutorial Answers

Chapter 1 – What is Statistics?

1. (4)
2. (3)
3. (i) Study 1:
Treatment: The number of storeys from which the cat fell.
Response: Survival of the cat.
Study 2:
Treatment: The gender of the student.
Response: Clothing expenditure.
Study 3:
Treatment: The style of the commercial.
Response: Recall score.
(ii) Study 1: An observational study. There is no allocation (by the researcher) of cats to the number of storeys of the fall. Results are simply observed for cases that happen.
Study 2: An observational study. There is no allocation (by the researcher) of subjects (the students) to the groups (male or female).
Study 3: An experiment. The researcher allocates which commercial is to be watched by each subject (shopper).
(iii) It is not possible to do an experiment for study 1 due to ethical and moral considerations. To do an experiment a sample of cats would have to be allocated a height and then thrown out of a window at that height.
It is not possible to do an experiment for study 2 as the researcher cannot allocate a gender to a student.
4. (5)
5. (3)
6. (4)
7. (2)

