

Information Technology CS编程辅导

# FIT1006 Business Fraction Analysis

WeChat: cstutorcs

Assignment Project Exam Help

Lecture 2

Email: tutorcs@163.com

Sampling and Surveying

# Topics covered: 代写代做 CS编程辅导

- Population and a samples
- Collecting data WeChat: cstutorcs
- Sources of data Assignment Project Exam Help
- Designing surveys Email: tutorcs@163.com
- Survey errors
   749389476
- Choosing a sample tutorcs.com



# Motivating Pfoblem代做 CS编程辅导

- A major bank cure of the first Private Banking services to its clients in this in the possibility of extending its Private Banking business to include several major and Bendigo.

  Ballarat, Hamilton and Bendigo.

  Assignment Project Exam Help
- The bank wants to survey potential clients in these districts to determine whether likely demand would make this business vials 89476
- Suggest a sampling/surveycdesign for the bank to use, outlining the issues you need to consider and any problems you anticipate.



# 10 Survey questions 做 CS编程辅导

These questions coul dressed using survey data:

- Who is settling interpretate ty better, country or city students?
- Are students happing and a quality of food in the Campus Centre?
- What is the average savings of first year students?
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  Do savings differ between students of different faculties?
- What is the average sign of the Evan Help
- Are OZ Lotto Division 1 winners still happy one year after their win?
- 7. Where do the majority of 1938 my website click through from – Google? Yahoo? Or?
- Is Coles cheaper https://totorshecom
- What proportion of Australians support immigration?
- 10. Would the Liberal Party win an election held today?



### Yesterday, I asked This question ...

#### **Question 1**

Are you currently in



Are you currently in Austr WeChat: cstutorcs

Yes, I'm in Australia (but not in Melbourne). ASSIGNMent Project Exam Help

(1) 1.67%

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B Yes, I'm in Melbourne, Australia.

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(49) 81.67%

No, I'm not in Australia at the moment. //tutorcs.com

(10) 16.67%



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#### **Question 2**

The sampling mexample of:



The sampling method in Question 1 is an example of:

WeChat: cstutor@Som sample.



E a judgemental sample.

A. a random sampienment Project Exam Help

(30) 51.72%

- C. a census. QQ: 749389476
- D. a cluster sanhpre://tutorcs.com
- E. a judgemental sample. (5) 8.62%



#### **Question 2**

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example of:

Discussion in g



The sampling method in Q

A a random sample.

(0) 0%

B a convenience sample.

C a census.

(7) 12.28%

D a cluster sample.

(1) 1.75%

E a judgemental sample.

(1) 1.75%

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(48) 84.21%

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### https://flux.qa程序的是多级的(\$1500 CO)

**Question 3** 

The sampling make in Question 1 is an example of:

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- A. a random sample. Assignment Project Exam Help
- B. a convenience sample. 163.com
- C. a census. QQ: 749389476
- D. a cluster sanhthe://tutorcs.com
- E. a judgemental sample.



# Choosing a Sample代做 CS编程辅导

- Probability Design
  - Random San
  - Stratified Sampling

- Systematic Sampling
- Cluster Sampling

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- Non-Probability Dasignment Project Exam Help
  - Convenience Sampling orcs@ Tobudgemental Sampling
  - Quota Sampling Snowball Sampling

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Non-probability designs are more prone to bias.



### Populations 都然 Samples 程辅导

- Population: who ection of what we are observing.
- Sample: subset we actually observe.
- We look at the sample to make an inference about Assignment Project Exam Help the population.

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 Population Parameter: the thing of interest.

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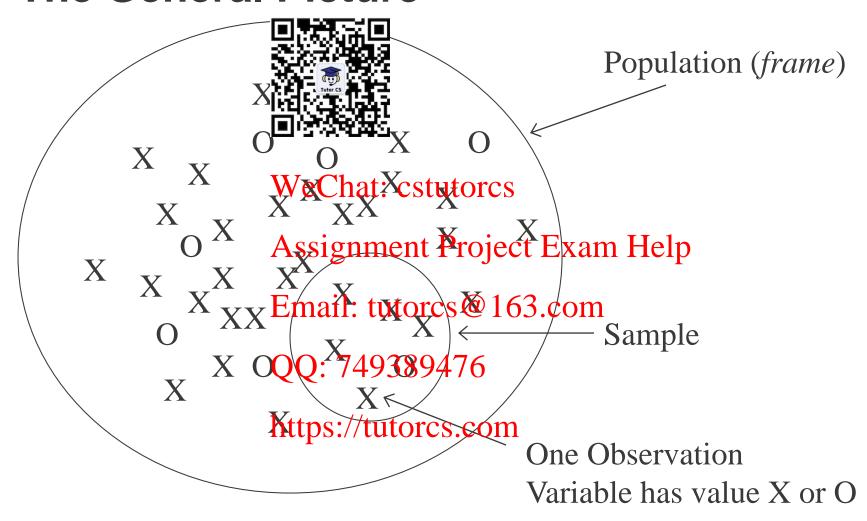
Sample Statistic: what we actually measure.

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We estimate the value of the population parameter from the sample statistic.



### The General 程序代写代做 CS编程辅导



### Reasons for 智斯特魯斯斯特

- High cost of sa

  a whole population.
- Length of time in the distribution in the length of time population.
- May have too much atautorcs
- May not have accessitativinglet population.
- Sampling can be destructive 163.com
  - Testing seat belts for breaking strain.
     749389476
- A census is a survey of a whole population.
  - The Australian population census is conducted once every five years.



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#### **Question 4**

I want to know where the nash students support a Rail link from city. Which sale least biased?

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  A. Email all students and record the first 100 responses.
- B. Randomly choose 400 students in the Cambus Centre at lunch time. Email: tutorcs@163.com
- C. Randomly choose a subject (say MED1000) and randomly choose 100 students from that class.
- ✓ D. Choose 100 statemtstatorandom from the University's register and email them.



### Examples of 替你必要以做 CS编程辅导

Television ratings



Market research

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Pre-election polls Assignment Project Exam Help

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Product registration information QQ: 749389476

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Product Testing



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#### **Question 5**

I want to know with early-onset Alzheimer's disease have had trouble managing their personal find the set survey method is:

#### Assignment Project Exam Help

- ✓ A. Face-to-faceEintell:viewcs@163.com
  - B. Telephone interviews89476
  - C. A postal surveys://tutorcs.com
  - D. An Internet survey.



# Types of Surters 写代做 CS编程辅导

- - Personal (face
  - Telephone Survey
  - WeChat: cstutorcsSelf-administered survey (postal/Internet)
- Two main issues are assignment Project Exam Help
  - How to encour **Experies perfect the respect to the second accurately?**OO: 749389476
  - How to conduct the survey with the minimum cost? https://tutorcs.com

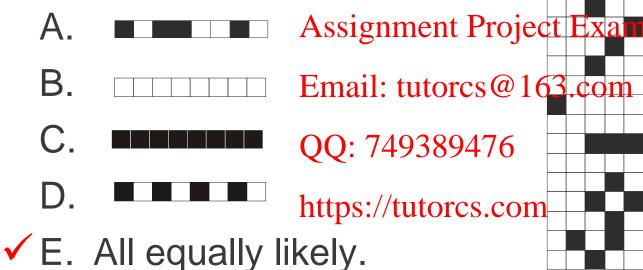
### Stages of a Strvey代做 CS编程辅导

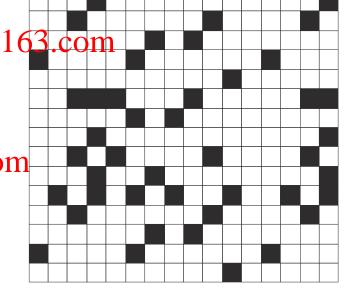
- Exploratory intervies the cus group
  - Identify issue point pothesis and questions
- Questionnaire designed and tested
- Experimental design and population *frame* is determined
- Samples are selected signment Project Exam Help
- Questionnaire is admaisteredres@163.com
- Analysis and reporting: 749389476

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**Question 6** 

Sampling 8 (on the sample could not be come from the population (on the RHS)?





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#### **Question 7**

Which sample is the likely to have come from the population (on the night-hand side)?

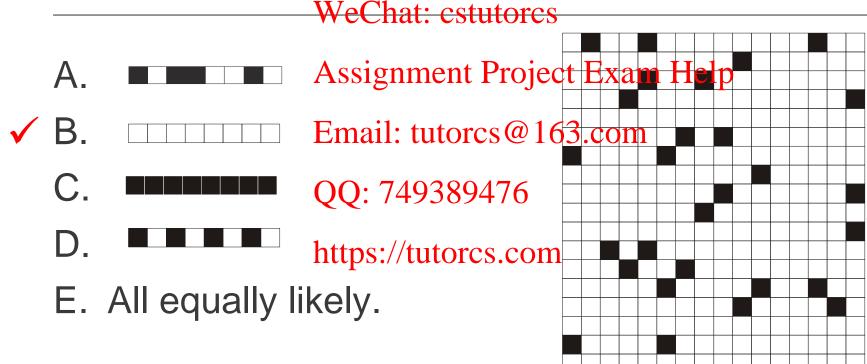




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#### **Question 8**

Which sample is the likely to have come from the population (on the number)?



### Survey Error餐序代写代做 CS编程辅导

- Sampling Errors
  - The charact the sample do not match those of the population.
  - This is usually eddines settliby taking a larger sample.
- Non-sampling Errarsignment Project Exam Help
  - Errors in response or in recording data Email: tutorcs@163.com
  - Misclassification or inaccurate response
  - Bias in the selection of the sample
  - Non-responset pias the less election of respondents.

# Motivating Pfoblem代做 CS编程辅导

- A major bank curred by the Private Banking services to its clients in the CBD to the possibility of extending its Predict bunking business to include several major country towns: Geelong, Ballarat, Hamilton and Bendigo.
- The bank wants to survey potential clients in these districts to determine whether dikely to business viable.

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- Suggest a sampling/survey design for the bank to use, outlining the issuestype://hetercocomsider and any problems you anticipate.

#### **Key Ideas**

#### 程序代写代做 CS编程辅导

- You should be fan the following:
  - Parameter, Salidica Tattistic, Variable, Observation;
  - The reasons for sampling;
  - WeChat: cstutorcs
    The 3 main methods of surveying (advantages / disadvantages Apt signh) ent Project Exam Help
  - Causes of errogin surveys: @163.com
  - Methods of choosing samples (4 random / 4 non-random methods).



# Key Ideas coftf:代写代做 CS编程辅导

#### • Main points:

- Think of sample is the process of statistical analysis so errors here undermine any conclusions wewceondraws from subsequent analysis.
- Relevant issues are: sampling method, survey design, potential bias in sample selection.
- In later lectures we look with sample size affects the validity of conclusions we draw.



# Key Ideas cont... CS编程辅导

Think about:

How we sam!

Why we sample

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How we conduct a survey and collect the results,

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Problems or considerations that emerge depending on our choice of a stample / swill be yemethod.

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### Australian — Newspon (Feb 地位21)



https://tutorcs.com

http://www.theaustralian.com.au/national-affairs/newspoll/vic



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#### **Question 9**

Based on a poll religiously 9% ALP and 51% Coalition with a sample size 14.295 we can conclude that:

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- A. 95% sure ALP and the sampling period.
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  B. 95% sure Coalition would have won the election.
- C. Results are too close to call.
- D. Sample size ishttps://tutarcs.com
- E. Don't know.

We will revisit this question later in our course

### Expert attacks<sup>序</sup>所ealthy 等後時代

#### Excerpt:

- "Dr Rosemary State an article published online in The Medical Journal on the Medical Journal on the Journal o
- Manufacturers payasligenear projected on maliding scale of annual sales, to use the tick logo ...
- But Dr Stanton said comparable products that did not carry the tick could be achette4 \$\frac{163}{2}\$ com because their prices were not inflated by licence fees…"
- https://tutorcs.com
   Design a survey to test whether ticked items are more expensive than their non-ticked counterparts.
- http://www.theage.com.au/national/expert-attacks-healthy-food-tick-20110228-1bbqy.html

#### Reading

#### 程序代写代做 CS编程辅导

- General
  - Selvanathari.



Sampling

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- Selvanathan Chapter 2. Assignment Project Exam Help
- McClennan, W., An Introduction to Sample Surveys, Australian Bureau of Statistics, 63999. Cat 1299.0

http://abs.gov.au/ausiale/alfs/2013/01/27/50

Mission Australia: Youth Survey 2015

https://www.missionaustralia.com.au/what-we-do/research-evaluation/youth-survey



### Questions — 程序作写代的GS编程辅导

General

Selvanathan: Line 1.7

(For thinking about...)

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Sampling

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Selvanathan:

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• 2.18, 2.21, 2.22, 2.24, 2.25, 2.26.

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Tutorial 1 Questions.

