A Presentation on Developing Questionnaire



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Outline of Discussion



- What is Questionnaire
- Purpose of Questionnaire
- Elements of Questionnaire
- Characteristics of Questionnaire
- Types of Questionnaire
- Steps to develop Questionnaire
- When to use a questionnaire
- Issues related content of Questionnaire
- Guideline in developing questionnaire
- Advantage and Disadvantages of Questionnaire
- Questions from Participants



What is a Questionnaire



"Questionnaire is a tool / Instrument made of set of Questions"



Questionnaire is a set of **standard questions** for gathering **related** information from a group of individual

Concise, particular & information oriented

ICT application



School Students

Dietary Pattern

Obese/Diabetic

Athlete

Motive behind exercise

Personality Traits



Exercising Individual



* Questionnaire typically used to measure **affective domains** such as attitude and opinions.





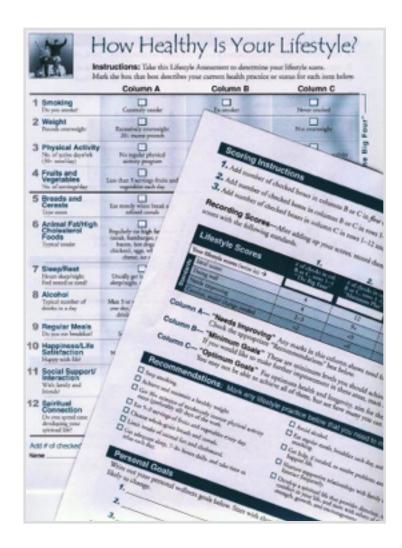
What is a Questionnaire

A set of Questions designed to generate the statistical information from a specific demographic needed to accomplish the research objectives

A questionnaire is a research tool consisting of a series of questions and other prompts (Fact) asked to individuals to obtain statistically useful information about a given topic. The questionnaire is invented by the Sir Francis Galton. (S.Pandya, 2010)

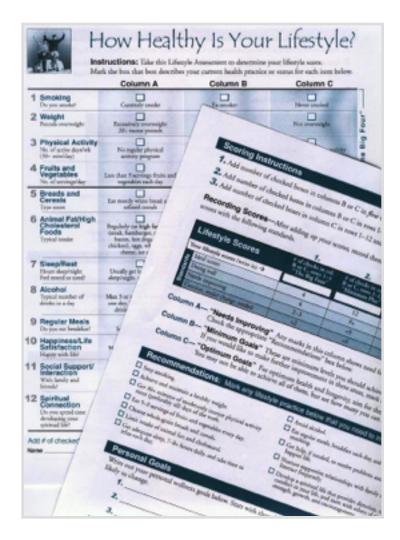


What is a Questionnaire



The questionnaire is probably most used and most abused of the data gathering devices .It is easy to prepare and to administer. The questionnaire is a form prepared and distributed to secure responses to certain questions. It is a device for securing answers to questions by using a form which the respondent will fill by himself. It is a systematic compilation of questions. It is an important instrument being used to gather information from widely scattered sources. Normally used where one cannot see personally all of the people from whom he desires responses or where there is no particular reason to see them personally.

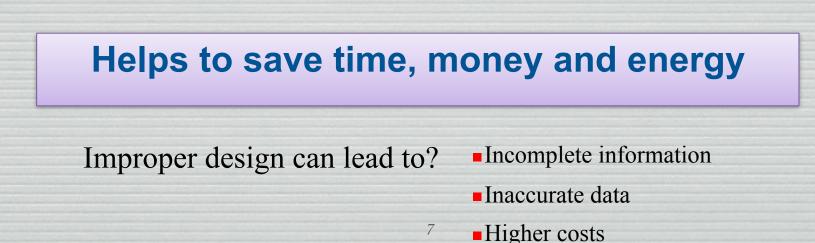
What is a Questionnaire



The Questionnaire design is a long process that demands careful attention. A questionnaire is a powerful evaluation tool and should not be taken lightly. Design begins with an understanding of the capabilities of a questionnaire and how they can help your research. If it is determined that a questionnaire is to be used, the greatest care goes into the planning of the objectives. Questionnaires are like any scientific experiment. One does not collect data and then see if they found something interesting. One forms a hypothesis and an experiment that will help prove or disprove the hypothesis.

Purpose of Questionnaire

- The primary purpose of a questionnaire is to extract data from respondents. (in form of Interview, Opinion, and questionnaire)
- It is an Inexpensive way to gather data from a potentially large number of respondents (by mail, email or telephonic)
- It helps to Increases speed and accuracy of recording
- When properly constructed and responsibly administered It becomes a very important tool for providing a standardised data gathering procedure.



Elements of Questionnaire

- Eating Habits
- Motive Behind Exercise
- Teacher Questionnaire on use of ICT

1 Title:

It should be very clear and precise This helps to **identifies** the domain of the investigation. The respondent is initially get **oriented** to the investigation. It should be **captivating** enough to attract **attention** and **enthusiasm**.

Elements of Questionnaire

2 General introduction:

This has a **description** of the **purpose** of study.

The respondent is assured of **confidentiality** of information, making **clear** that there are no wrong or right answers.

Honest answers are also

requested.

POLLUTION QUESTIONNAIRE

This questionnaire is designed to allow underwriters to assess the exposures that exist, in your activities, in connection with pollution and/ or contamination or other environmental work related issues

Elements of Questionnaire

3. Specific instructions:

This offers **concise** demonstration on how to carry on with the business of responding to the questionnaire.

4. Questionnaire items:

It is the main part of the questionnaire schedule, to be clearly separated from the **aforementioned** parts.

5. Additional information:

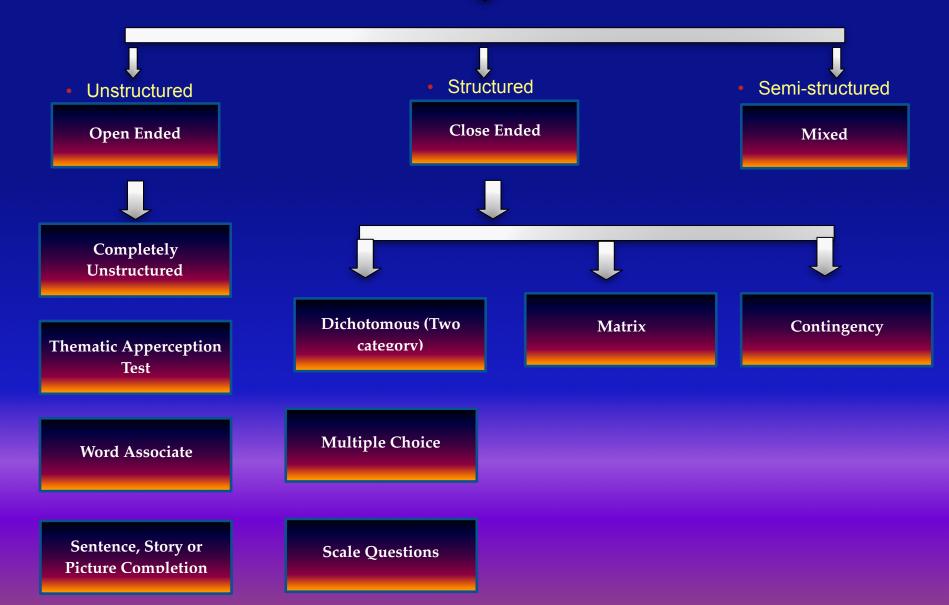
includes the full contact information of the researcher/ administrator. May include a promise that a copy of the summary of the final report would be send to the respondent on request.

6 "Thank you" may end the questionnaire.

Characteristics of Good Questionnaire

- 1. It deals with an important or significant topic.
- 2. Its significance is carefully stated on the questionnaire or on its covering letter.
- 3. It seeks only that data which cannot be obtained from the resources like books, reports and records.
- 4. It is as **short** as possible, only long enough to get the essential data.
- 5. It is attractive in appearance, nearly arranged and clearly stated or printed.
- 6. Directions are clear and complete, important terms are clarified.
- 7. The questions are objective, with no clues, hints or suggestions.
- 8. Questions are presented in a order from simple to complex.
- 9. Double barrelled questions or putting two questions in one question are also avoided.

Types of Questionnaire



- 1. Completely Unstructured
- 2. Thematic Apperception Test
- 3. Word Associate
- 4. Sentence, Story or Picture

Completion

Open Ended or

Unstructured

Questionnaires

Open Ended Questionnaire

Open ended Questions

Open ended questions give an opportunity to the respondents to express their opinions in a free-flowing manner. These questions don't have predetermined set of responses and the respondent is free to answer whatever he/she feels right. it can help to get true, insightful and even unexpected suggestions. Qualitative questions fall under this category.

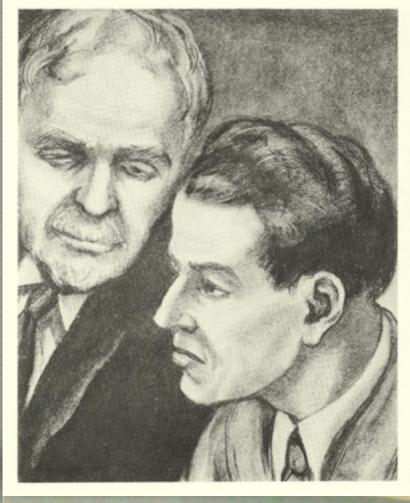
An ideal questionnaire would include an openended question at the end of the questionnaire that seeks feedback and/or suggestions for improvements from respondents. Freedom to express opinion No caping of options (Avoid bias) Scope to obtain more information Data form is Qualitative Difficult to analyse/ coding statistically 1. completely unstructured questions

State your opinion about sports policy amended by the sports ministry of India?

Such questions were ask openly to get opinion or view about the aspect.

How can we promote women empowerment in India

Suggest your opinion to promote healthy lifestyle in India What are the facilities do you expect from your institution





3. Thematic Apperception Test

TAT invented by (Murray, 1943) was originally designed to measure normal dimensions of personality in the general population

In this questionnaire, sequence of Pictures shows to respondent in same order for same duration and ask the following question on every picture as,

1. What happens,

16

- 2. What led up to the situation,
- 3. What the outcome would be,
- 4. And what the characters would be thinking and feeling.

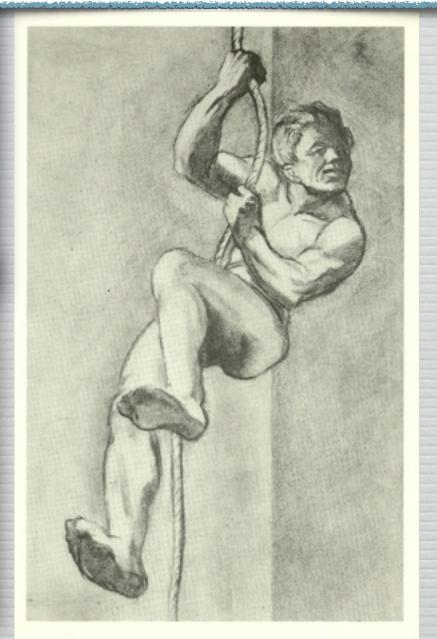
The respond may be analyse in terms of any theme, conflicts, motivation, interest etc. that appear in them.



Image similar to those used in TAT



Thematic Apperception Test



3. Word Associate Questions

words are presented and the respondent mentions the first word that comes to mind.

Exam - Tension Mother - Love

4. Sentence, Story or Picture completion

The second s

A Transferrance and the second

The respondent complete an incomplete sentences, stories or write on empty conversation balloon in a picture



Close Ended or Structured Questionnaires

- 1. Dichotomous (Two category)
- 2. Multiple Choice
- 3. Scale Questions
- 4. Matrix
- 5. Contingency

Closed Ended Questionnaire

Closed Format Questions

Multiple choice questions, where respondents are restricted to choose among any of the given multiple choice answers are known as closed format or closed-ended questions. There is no fixed limit as to how many multiple choices should be given; the number can be even or odd.

One of the main advantages of including closed format questions in your questionnaire design is the ease at performing preliminary analysis. These questions are ideal for calculating statistical data and percentages, as the answers set is known. Closed ended questions can also be asked to different groups at different intervals to efficiently track their opinion about a product/service/ company over time.

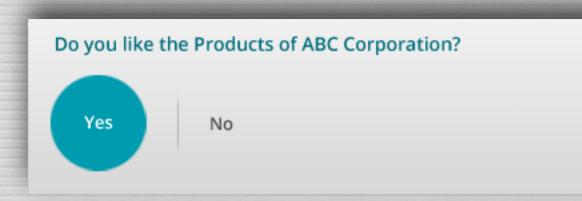
- 1. Limited **Freedom** to express opinion
- 2. Caping of options (Avoid bias)
- 3. No thumb rule **fix** numbers of options
- 4. Data form is **Quantitative**
- **5.** Easy to **analyse**/ **coding** statistically
- 6. Scope of getting extra information is very less.

Close Ended Questionnaire

Dichotomous Questions

These are simple questions that ask respondents to answer in a yes or no. One major drawback with dichotomous questions is that it cannot analyse the answers between yes and no, there is no scope for a middle perspective.

Example of a Closed-Ended Dichotomous Question



1. Dichotomous (Two category)

Have you ever experienced a service from our fitness centre

Yes / No

these kinds of questions has two possible responses only, either Yes / No True / False Agree / Disagree

please enter your gender

Male / Female

Sports performance always counted as "No pain No gain"

True / False

22

Healthy practices promotes quality of life

Agree / Disagree



Closed-ended - Multiple Choice

When all response choices are known
When quantitative statistical results are desired

Which of the warm up duration you follow before athletic competition?

- 10 min.
- 15 min.
- 20 min.
- 25 min.
- more than 25 min.

closed Ended scale format

Likert Questions

3

Likert questions can help you ascertain how strongly your respondents agree to a particular statement. Such type of questions also help you assess how your customers feel towards a certain issue, product or service.

Example of a Closed-Ended Likert Question





To assess a person's feelings about something

• Express your views on the following aspect of smoking

۲	Questions	SA	Α	UD	D	SD
	Smoking is injurious to health					
	Cigarette contains nicotine					
	Those who smoke looks charming					
	Smokers can impress people					

SA Strongly Agree, A Agree, UD Undecided, D Disagree, SD Strongly Disagree

Bipolar Closed Ended Questions

and the second second

Bipolar Questions

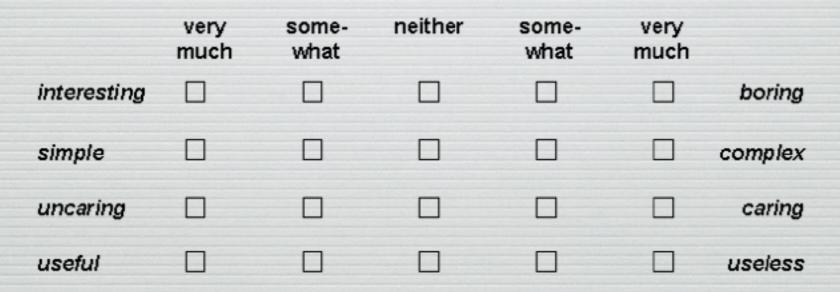
Bipolar questions are the ones having **two extreme** answers written at the opposite ends of the scale. The respondents are asked to mark their responses between those two.

Example of a Closed-Ended Bipolar Question

How would you describe the services of XYZ Corporation?

Efficient X	Inefficient
Fast X	Slow
Reliable X	Unreliable

Please state your opinions on national health insurance on the scale below



4

Matrix

A **matrix question**—are really, multiple questions presented on a grid—is one of the most popular question types in online and traditional pen-and-paper surveys.

For survey creators, these bundled questions are easy to write and program. For respondents, they're generally easy to interpret (and answer) since the scales and answer options stay the same across all items.

2. How satisfied or dissatisfied are you with each of the following?						
	Very satisfied	Somewhat satisfied	Neither satisfied nor dissatisfied	Somewhat dissatisfied	Very dissatisfied	
The interaction with the sales staff	0	0	0	0	0	
rour experience at he register	\bigcirc	0	\bigcirc	\bigcirc	\odot	
The organization of he store	\odot	\bigcirc	0	0	0	
The products offered in the store	\bigcirc	\bigcirc	0	\bigcirc	\bigcirc	
he price of the roducts	0	0	0	0	0	
The sizes available at the store	\bigcirc	\bigcirc	0	\bigcirc	0	

Contingency (Dependent question)

A questioned that is answered only if the respondent gives a particular respond to a previous question. This avoid asking questions to people that do not apply to them.

Do You smoke Yes / No

29

If Yes, about how many times you smoke

once

5

- O2 to 5 times
- ●6 to 10 times
- ●11 to 20 times

omore than 20 times in a day.

Contingency (Dependent question)



2. If 'yes' how long have you been using?

- From last 6 months (
 From last 1 year (
 From last 2 years (
- •From last 3-4 years (

Advantages and Disadvantages of Close ended Questionnaire

Advantages of Close ended questionnaire:

1. The researcher is able to contact large numbers of people quickly, easily and efficiently using a postal questionnaire.

2.Questionnaires are relatively quick and easy to create, code and interpret (especially if closed questions are used).

3. A questionnaire is easy to standardise. For example, every respondent is asked the same question in the same way. The researcher, therefore, can be sure hat everyone in the sample answers exactly the same questions, which makes this a very reliable method of research.

4.Questionnaires can be used to explore potentially embarrassing areas (such as sexual and criminal-matters) more easily than other methods.

Disadvantages of Close ended questionnaire:

1. The format of questionnaire design makes it difficult for the researcher to examine complex issues and opinions.

2. With a postal questionnaire, the researcher can never be certain the person to whom the questionnaire is sent actually fills it in.

3. Where the researcher is not present, it's always difficult to know whether or not a respondent has understood a question properly.

4. The researcher has to hope the questions asked mean the same to all the respondents as they do to the researcher.

5. The response rate (that is, the number of questionnaires that are actually returned to the researcher)tends to be very low for

Mixed Method

In some situations, you may have a partial list of answer choices, but you may still have some doubt or uncertainty about other possible responses. You can create a partially structured question such as the following:

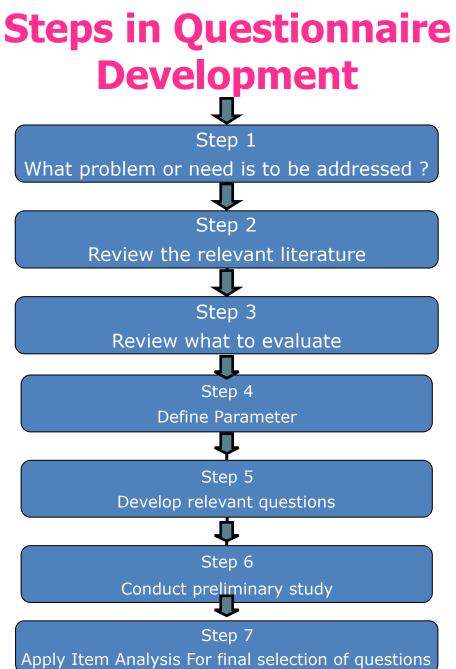
Example of a Partially Structured Question

What purpose do you use web based resources?

- •For research work
- •To write assignments
- •To improve subject knowledge
- •For the purpose of seminar presentation

Any other (Please specify): 1.____





When to use a Questionnaire?

Using questionnaire depends upon

- Type of information to be gathered
- Available resources for the experiment.

Use in following circumstances

- When resources and money are limited
 - Although preparation cost may be high
 - but per unit evaluation inexpensive
- Time is also an important resource that questionnaires can maximise
- Questionnaire through e-mail may cover more respondents
- When it is necessary to protect the privacy of the participants

Issues in Designing Questionnaire

1.Determine the **Parameters** to be investigated

2.Prepare the **questions** to be asked

3.Select question **type** and **specify** the wording

4. Design the question sequence and overall questionnaire layout





Few issues regarding content of questionnaire



Ask about what you need to know

- Content Oriented
- Population Oriented

Will the respondent be able to answer your question

- Simple to Complex
- General to Specific
- well known



Will respondents want to answer the question

Private questionssilly questions



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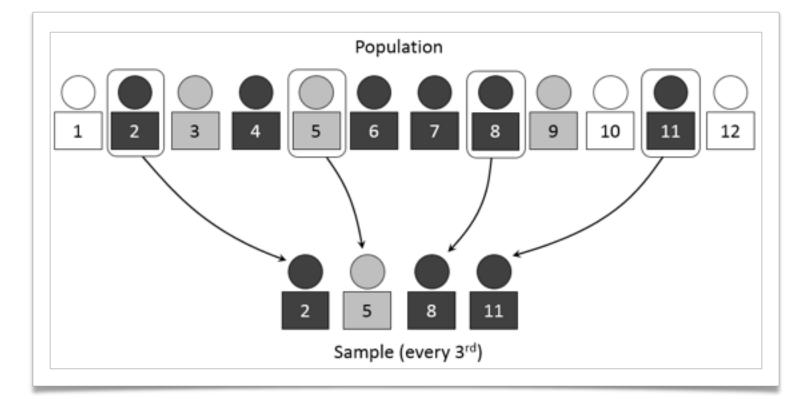
Key Issue in choosing sample

Respondents must represent the population



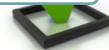
Homogenous Group

- : Similar characteristics
- : More Similar, accurate information
- : fullfill the purpose of questionnaires.

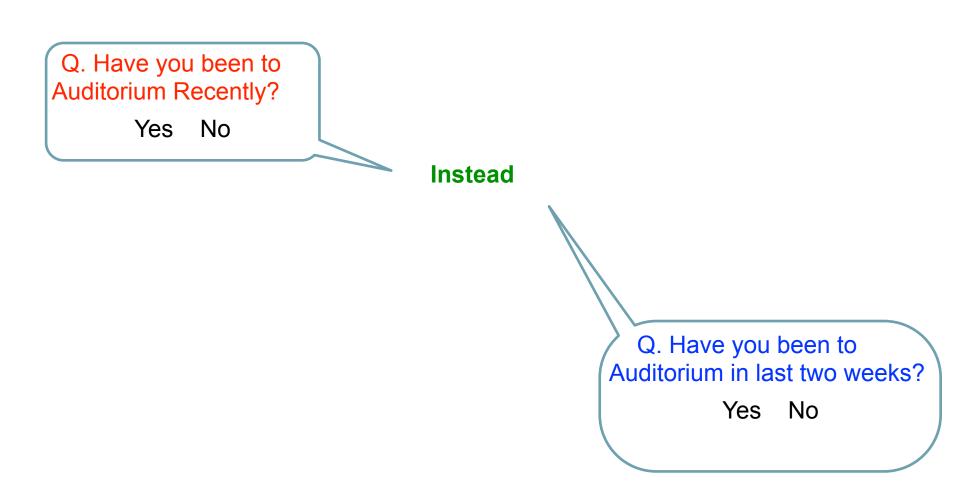


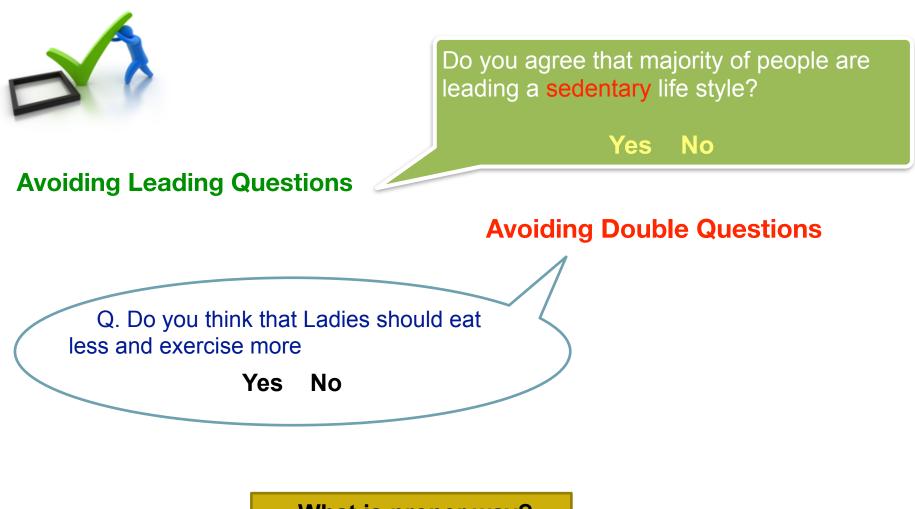
Suggestions for writing closed-ended items

- 1) Avoid **double-barreled** (Do you approve or disapprove of girls participation in outdoor activities?)
- 2) Provide all response options to a closed question and make them mutually exclusive
- 3) Avoid numeric intervals except when detail might discourage response (Annual parental income, number of beers consumed on last drinking occasion)
- 4) Use specific time frames (during this quarter)
- 5) Avoid acronyms, jargon, slang and technical terms
- 6) Use complete sentences (Sex? v Are you [male] or [female]



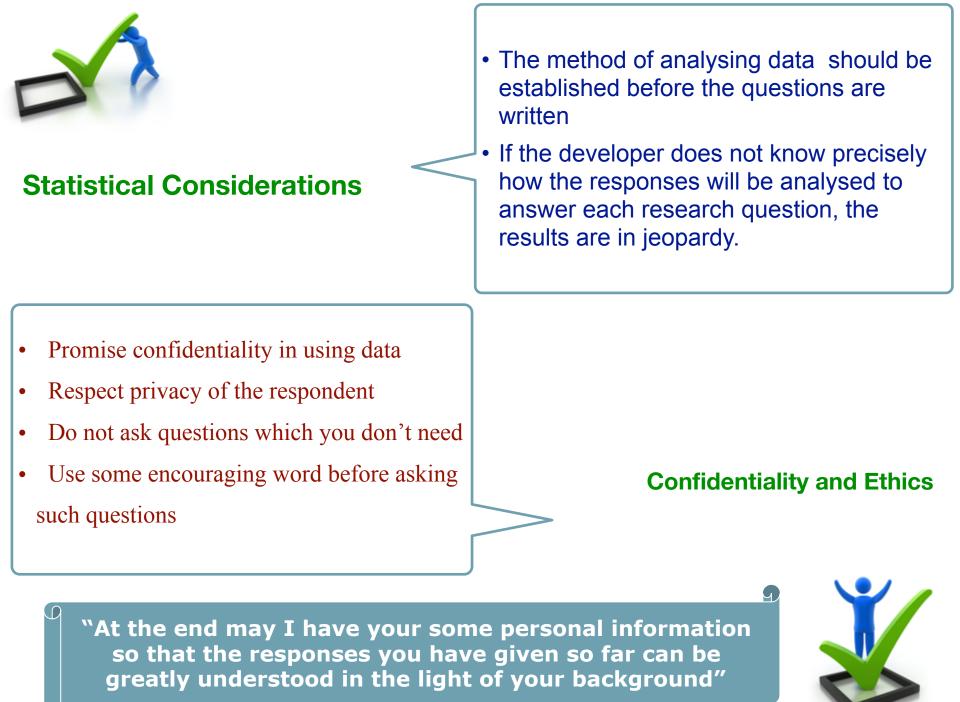
Be Specific, concise and unambiguous





What is proper way?

1 Do you think that ladies should eat less Y N Q.2 Do you think that ladies should exercise more? Y N





- Test a questionnaire with a small number of interviews before conducting your main interviews
 - Survey on the same kinds of people you will include in the main study.
 - ► Test run helps reveal unanticipated problems
 - It can help see if the interviewees are understanding your questions and giving useful answers.



Certain Example of Questionnaire

Personality Questions

Items

Strongly Disagree			Strongly Agree		
1	2	3	4	5	

I constantly worry about what people think about me I am not frightened acting independently from the crowed I feel threatened in a large group I feel I am easily influenced by the behaviour of my friends I feel there is a constant pressure on me to be popular I feel free to be myself in socializing with the people

Merits and Demerits of Questionnaire

Merits of Questionnaire Method:

- 1. it's very economical.
- 2. It's a time saving process.
- 3. It covers the research in wide area.
- 4. It's very suitable for special type of responses.
- 5. It is most reliable in special cases.

Demerits of Questionnaire Method:

- 1. Through this we get only limited responses.
- 2. Lack of personal contact.
- 3. Greater possibility of wrong answers.
- 4. Chances of receiving incomplete response are more.
- 5. Sometimes answers may be illegible.
- 6. It may be useless in many problems.

Thank you.....



