Collecting Data Using Attitudinal Scales





Topics covered

- Attitudinal scales in research
- Function of attitudinal scales
- Developing attitudinal scales
- Types of attitudinal scales
 - Likert scale
 - Thurstone scale
 - Guttman scale
- Attitudinal scales and measurement scales



Attitudinal scales in research

- Helps to find out how people feel towards certain issues and situations (level of satisfaction, agreement, positive/negative attitude, etc.)
- Quantitative research explores types of attitudes, how many people have a certain attitude and intensity of attitude
- Qualitative research explores the spread of attitudes and establish types of attitudes
- Attitude scales are prevalent in quantitative research such as the Likert scale



Function of attitudinal scales

- Measure of intensity of respondents' attitudes toward the various aspects of a situation or issue
- Provide techniques to combine the attitude toward different aspects into on overall indicator





Developing attitudinal scales

- 1. Which aspects of a situation or issue should be included when seeking to measure an attitude towards an issue or problem?
- 2. What procedure should be adopted for combining the different aspects to obtain an overall picture?
- 3. How can one ensure that a scale really is measuring what it is supposed to measure?





Types of attitudinal scales

- The summated rating scale, also known as the Likert scale;
- The equal-appearing interval scale or differential scale, also known as the Thurstone scale;
- The cumulative scale, also known as the Guttman scale.





Likert Scale

- Most common attitudinal scale
- Measures intensity of attitude toward an issue
- Each statement has equal attitudinal value
- Measures in categories or on a numerical scale
- 1, 2 or 3 dimensions of attitudes (e.g. 2 as in positive and negative)
- Scores will be assigned to the attitude scale if calculations are used for weighting responses



Figure 10.1 An example of a categorical scale

The lecturer:	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
1 Knows the subject well					
2 Is unenthusiastic about teaching					
3 Shows concern for students					
4 Makes unreasonable demands					
5 Has poor communication skills					
6 Knows how to teach7 Can explain difficult concepts in					
simple terms 8 Is hard to approach					
9 Is liked by some students and not					
by others					
10 Is difficult to get along with					

Figure 10.1 An example of a categorical scale





Figure 10.2 An example of a seven point scale

The lecturer:

- 1 Knows the subject well
- 2 Is enthusiastic about teaching
- 3 Shows no concern for students
- 4 Demands too much
- 5 Communicates well
- 6 Knows how to teach
- 7 Can explain difficult concepts in simple terms
- 8 Is seldom available to the students
- 9 Is liked by some students and not by others
- 10 Has published a great deal

7	6	5	4	3	2	1
7	6	5	4	3	2	1
7	6	5	4	3	2	1
7	6	5	4	3	2	1
7	6	5	4	3	2	1
7	6	5	4	3	2	1
7	6	5	4	3	2	1
7	6	5	4	3	2	1
7	6	5	4	3	2	1
7	6	5	4	3	2	1

Figure 10.2 An example of a seven-point numerical scale





Figure 10.3 An example of a scale with statements reflecting varying degrees of an attitude

- The lecturer
- (a) knows the subject extremely well
- (b) knows the subject well
- (c) has an average knowledge of the subject
- (d) does not know the subject
- (e) has an extremely poor knowledge of the subject

Figure 10.3 An example of a scale with statements reflecting varying degrees of an attitude





Other scales

Thurstone scale:

- Calculates an attitudinal value for each statement
- Mean score is recorded for each statement
- The mean score is equivalent to the attitudinal value assigned by a group of judges
- Reflects absolute rather than relative attitudes

Guttman scale:

Cumulative scale which is rarely used





Attitudinal scales and measurement scales

Table 10.1 The relationship between attitudinal and measurement scales

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Attitudinal scales	Measurement scales		
Likert scale	Ordinal scale		
Thurstone scale	Interval scale		
Guttman scale	Ratio scale		



