

## Multi-Item Scale for Project:

PIAAC-Longitudinal (PIAAC-L) 2014 (English Version)

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### Introduction:

Let us now come to some questions regarding the equipment of your household.

*[Kommen wir nun zu einigen Fragen bezüglich der Ausstattung Ihres Haushaltes.]*

### Question Text:

How many of the following things are there in your home?

*[Wie viele der folgenden Dinge gibt es bei Ihnen zu Hause?]*

### Instruction:

(INT.: Read all out loud. Only one answer alternative per query) *[(INT.: Alles vorlesen. Nur eine Antwortalternative pro Abfrage)]*

### Answer Categories:

None *[Keines]*

One *[Eins]*

Two *[Zwei]*

Three or more *[Drei oder mehr]*

### Findings for Multi-Item Scale:

In this question all items were answered by all 20 test persons. Items c) and d) were rehearsed, the other items were only examined in more detail if difficulties were evident on the part of the test persons or spontaneous comments were made. While item a) did not cause any problems, item b) caused slight difficulties for three test persons (TP 02, 04, 09) because they were not sure whether tablet computers should be counted here. The fact that this is not clear to the test persons is also made clear by the fact that two further test persons (TP 16, 20), after they were explicitly asked about tablet computers in item c), have their answer to item b) corrected. They had mistakenly counted tablet computers as computers.

## Recommendations for Multi-Item Scale:

Question: No changes recommended.

Response options: No changes recommended.

## Cognitive Techniques:

Comprehension Probing, Specific Probing.

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## All Items for Question(Question Text):

How many of the following things are there in your home?

*[Wie viele der folgenden Dinge gibt es bei Ihnen zu Hause?]*

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-> Tested Items:

## Item Text:

c. Tablet computer, e.g. iPad or a corresponding tablet from other manufacturers *[Tablet-Computer, z.B. iPad oder ein entsprechendes Tablet anderer Hersteller]*

## Recommendations:

The item with the iPad as the only example did not represent a problem for the test persons. The tablet from Samsung would be suitable as a further example, as it is used by more than half of the test persons as a further example. In order to avoid that test persons include tablet computers in their households in item b), we recommend changing the order of the items, first asking for item c) "tablet computers" and then for item b) "computers (desktop, laptop or notebook)".

## Findings:

A total of eleven test persons do not own a tablet computer. Nevertheless, almost all test persons know what is meant by this. Only test person 11, who also stated that they did not own one, could not give a clear description of what they understood by a tablet computer. All other 19 test persons can do so without any problems. Here are some examples:

- "A tablet computer is a simplified form of a laptop, but without a separate keyboard and touch screen." (TP 04)

- *"It's a mix of cell phone and laptop."* (TP 10)
- *"Square and so flat and the keyboard is on the screen with it."* (TP 16)

In response to the question of whether the test persons knew of any other tablet computers besides the iPad, 14 test persons were able to name additional manufacturers. The following tablet computers or their manufacturers were named most frequently:

- Samsung / Samsung Galaxy from 13 test persons
- Sony from 4 test persons
- Asus from 3 test persons

Further were named: Nokia, Toshiba, Acer, HP, Cat Nova, Android Tablets, Nexus, Grundig and Philips.

## Question Topic:

Social demographics

## Construct:

Household equipment/socioeconomic status

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## Item Text:

d. E-Book-Reader, e.g. Kindle, Tolino or similar products [*E-Book-Reader, z.B. Kindle, Tolino oder ähnliche Produkte*]

## Recommendations:

Since the majority of the test persons do not know any other e-book reader than the Kindle or Tolino, we recommend to leave the item as it is and not to list further examples.

## Findings:

Four test persons (TP 01, 04, 06, 20) stated that they had at least one e-book reader in their households. However, all but test person 11, who is not familiar with such a device, can explain what an e-book reader is:

- *"This is the one for the books you can download. Flat device to carry around."* (TP 02)

- *"From Kindle I know this. This is a storage medium for several books, where you can read di-rectly on it. Not suitable for playing or surfing."* (TP 04)
- *"An e-book is an electronic book with a matt screen that digitally replaces the classic book."* (TP 08)

Only three other e-book readers are named "Sony" and one "Acer", whereby test person 15 notes that any tablet computer can be used to read e-books.

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-> Not Tested Items:

### **Item Text:**

a. Television [*Fernseher*]

### **Question Topic:**

Social demographics

### **Construct:**

Household equipment/socioeconomic status

### **Item Text:**

b. Computer (Desktop, laptop or notebook) [*Computer (Desktop, Laptop oder Notebook)*]

### **Question Topic:**

Social demographics

**Construct:**

Household equipment/socioeconomic status