

# Video 17 of 21: Weighting Within-household selection adjustment

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Sampling



THE WORLD BANK

MANNHEIM  
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# Within-household selection adjustment (I)

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- This step is to adjust for the number of the households members in the final weight. If the survey estimates will be reported on the household level, this step can be ignored
- If one respondent was sampled with equal probability from all adults in the household using any of the standard within household selection methods (see Rizzo et. al., 2004), the adult weight  $d_{3i}$  is computed as

$$d_{3i} = d_{2i} \times a_{3i}$$

- where  $a_{3i}$  is the number of the household  $i$  members

# Within-household selection adjustment (II)

## Example

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- Continuing the previous example, for a sampled case in the West region with one phone number,  $d_{2i} = 174,930.2$ . If one random adult is selected, the within-household adjustment is computed as (capping number of adults at 5):

#Adults	$a_{3i}$	$d_{3i}$
1	1	174,930.2
2	2	349,860.4
3	3	524,790.6
4	4	699,720.8
5+	5	874,651

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*END OF VIDEO 17*