

Likert Item vs Likert Scale

Method: Likert Item vs Likert Scale

Method type: measurement_comparison

Design: Side-by-side distinction between one ordinal item and a six-item directionally aligned scale.

Variables: famrel, famrel, freetime, goout, Dalc, Walc, health

Inference scope: No hypothesis test is required; the output contrasts item-level and scale-level measurement summaries.

Formula: item=famrel; scale_i=mean(famrel,freetime,goout,6-Dalc,6-Walc,health).

Source rows: 649

Calculated metrics:

item_mean: 3.9306625577812

item_median: 4

item_sd: 0.955716891338186

scale_mean: 3.6748844375963

scale_sd: 0.494934135888322

item_total_correlation: 0.226597330457878

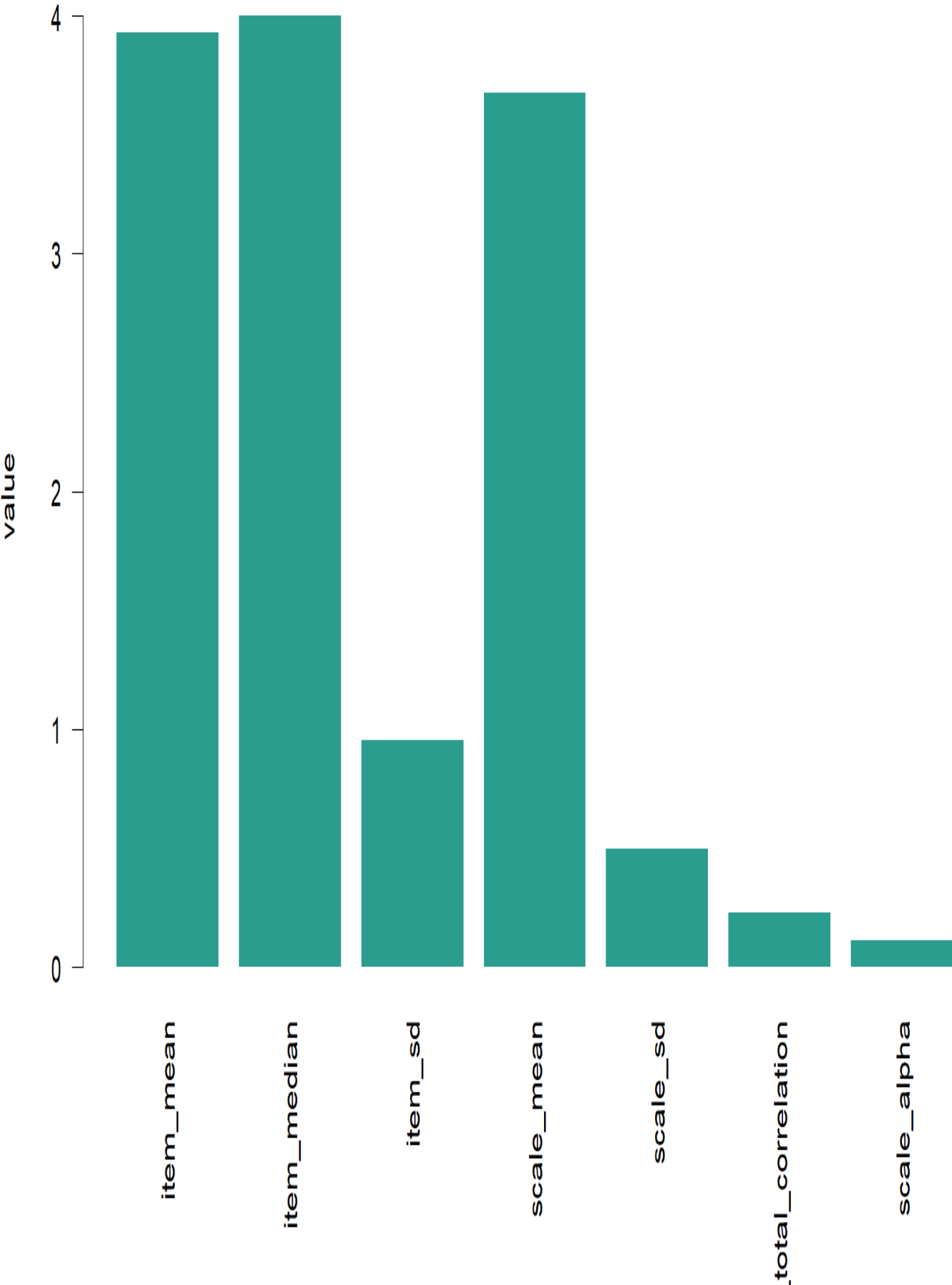
scale_alpha: 0.111762631246865

Interpretation:

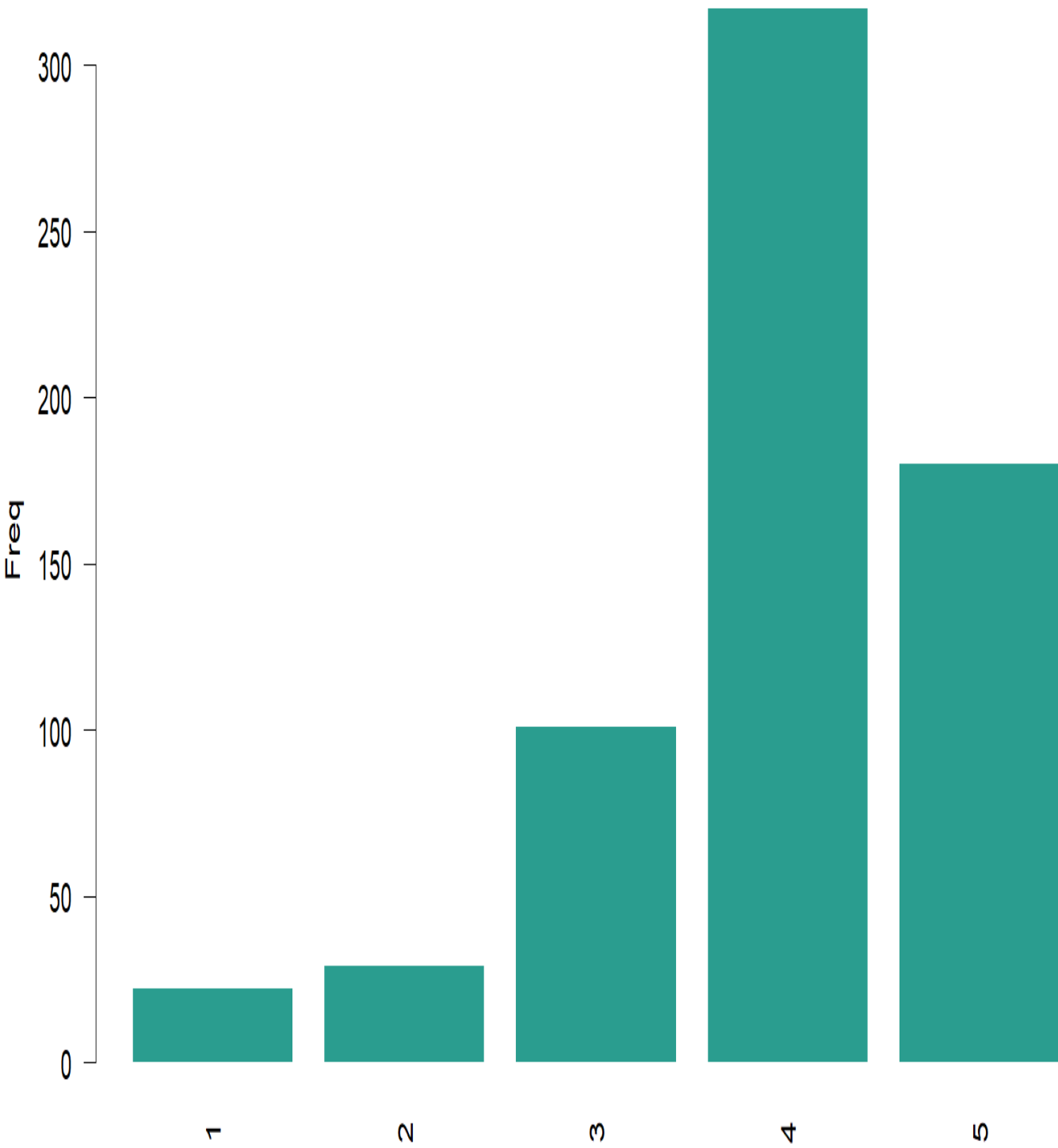
The item has five categories; the mean scale has finer resolution.

Item-total correlation 0.226597330457878

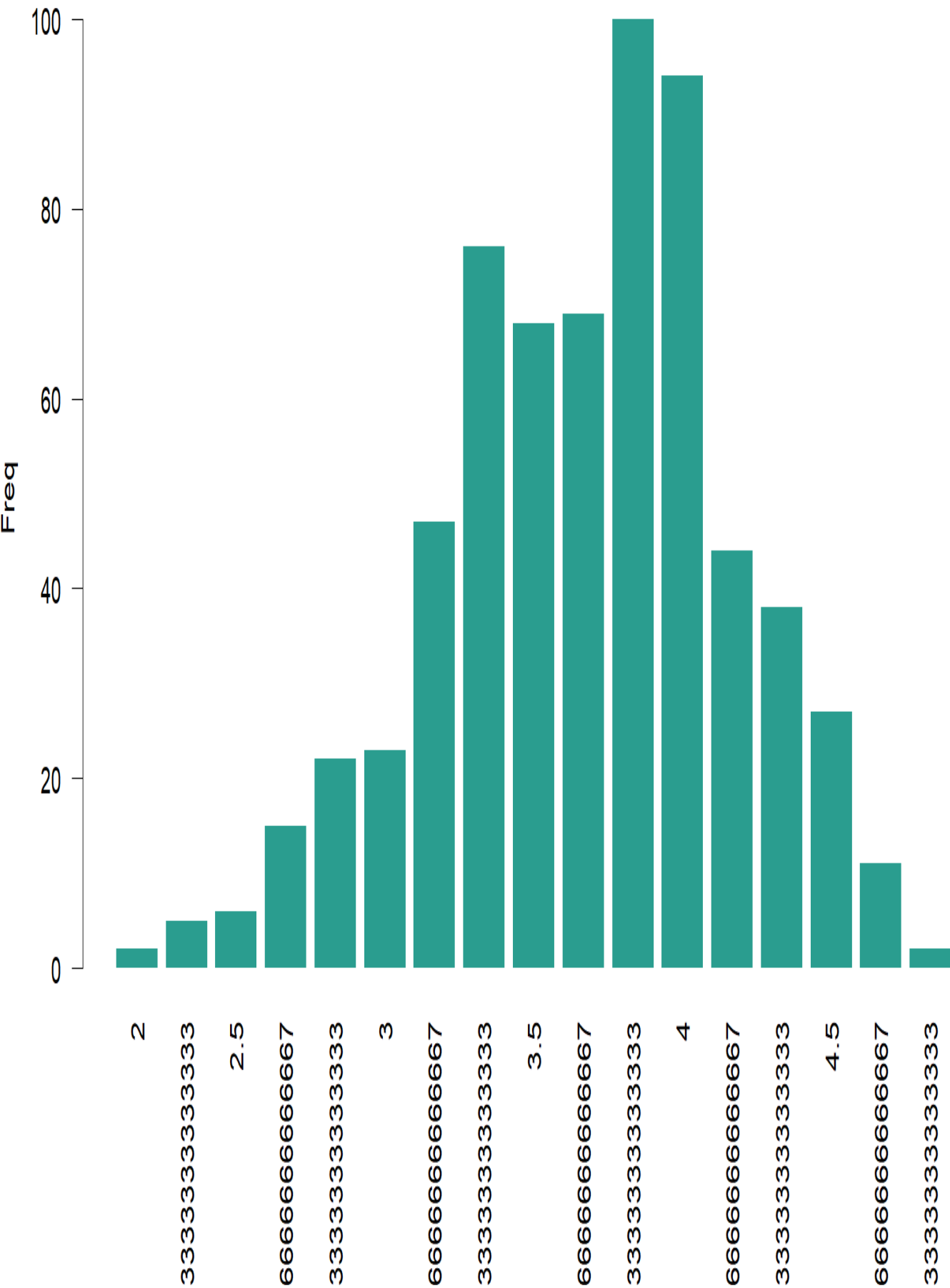
Likert Item vs Likert Scale - primary metrics



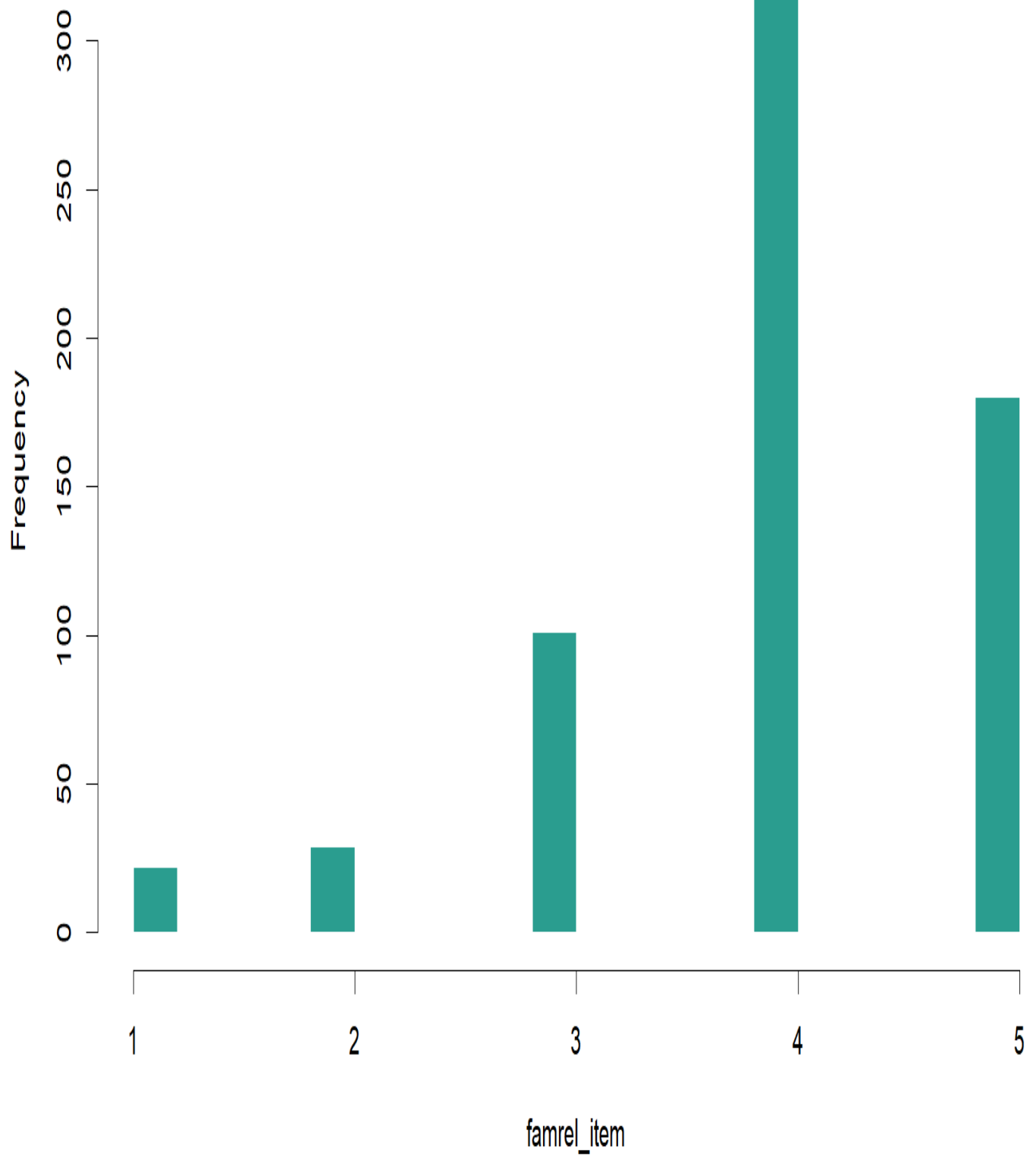
Likert Item vs Likert Scale - item frequency



Likert Item vs Likert Scale - scale distribution



Likert Item vs Likert Scale - item scale pairs



Likert Item vs Likert Scale verified results

