

Anchoring_Point and Range Estimate_Dot Array (#58418)

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1) Have any data been collected for this study already?

No, no data have been collected for this study yet.

2) What's the main question being asked or hypothesis being tested in this study?

H1: We expect that there will be a bigger anchoring effect (low vs. high anchor) for the larger than smaller magnitude array, in absolute terms. That is, we expect that anchoring effect has a greater influence on point estimate for the larger magnitude array (the array containing more dots) and than for the smaller magnitude array (the array the fewer dots).

H2: We expect that there is no higher skew index in the larger magnitude array condition than the smaller magnitude array condition. We define the skew index in section (5).

3) Describe the key dependent variable(s) specifying how they will be measured.

The key dependent variables will be (1) the dot estimate for each dot array, and (2) the skew index. We define the skew index in section (5).

4) How many and which conditions will participants be assigned to?

Participants will be randomly assigned into one of eight conditions in a 2 (anchor: low, high) x 2 (target: 35 dot array, 273 dot array) x 2 (estimate: point estimate, range estimate) between-subjects design.

5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.

To test H1, we will conduct a 2(anchor) x 2 (target) ANOVA on with the estimated number of dots provided by the participants in the point estimate condition, then do simple comparisons of dot estimates of the small and large dot arrays, between conditions.

To test H2, we will first calculate the range of plausible values provided by participants in the range estimate condition (for each anchor x target condition). Next, we will calculate the skew index for each target dot array by dividing the difference between each participant's estimate and the plausible value nearest the anchor by the full range of plausible values, within each anchor condition. We then will conduct a 2 (anchor) x 2 (target) ANOVA on the skew index.

6) Describe exactly how outliers will be defined and handled, and your precise rule(s) for excluding observations.

Participants whose estimates are below or equal to zero will be excluded from the analyses.

7) How many observations will be collected or what will determine sample size? No need to justify decision, but be precise about exactly how the number will be determined.

We will recruit 400 subjects to participate in the experiment.

8) Anything else you would like to pre-register? (e.g., secondary analyses, variables collected for exploratory purposes, unusual analyses planned?)

Nothing else to pre-register.