

LEARNING CHECK

1. In our example data, suppose each participant checked Facebook four times each day. If that was the case, what would the correlation have been between loneliness and the number of Facebook check-ins each day?

A: It would be impossible to calculate a correlation because there is now only one variable. If every participant checked Facebook four times each day, then it is no longer a variable; rather, it is a constant and cannot be analyzed. This is an example (and an extreme example at that) of range restriction that we discussed earlier.

2. Suppose Clayton et al. (2013) had included a measure of extraversion as a predictor of Facebook intensity. Extraversion is one's tendency to seek out social stimulation in the form of other people and social events, such as parties. Extraversion can be measured with an instrument like the one that Paul Costa and Robert McCrae (2008) developed. Their extraversion measure contains items such as "I like to be where the action is," to which people respond using a 1 (*not at all descriptive of me*) to 7 (*very much descriptive of me*) response range. Below are hypothetical data for 10 participants. Use these data to calculate the correlation between extraversion and the number of times people check Facebook each day.

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