

Quiz 7 - Regrade Submission 1

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6. Setting the variance of each latent variable to 2 is an acceptable way to set the scale for latent variables.

Original answer: False

Explanation: This is true because will restrict the latent variables to have the same variances, which will prevent them for having wildly different scales.

7. A just-identified model for the observed variables shown above would have 78 parameters estimated.

Original answer: False

Explanation: This is true because a just identified model would have the same number of parameters as there are distinct elements of the variance covariance matrix, or $12 \cdot (12-1)/2 + 12 = 78$.

9. A researcher wishing to conduct a multidimensional scaling of consumer pereptions of 20 different cars would require each participants to make 400 pairwise similarity judgments if direct measurement is used.

Original answer: True

Explanation: This is false because it would require $20(20-1)/2 = 196$ pairwise similarity judgments.