

Longitudinal Structural Equation Modeling by Todd D. Little
Chapter 4 Reading Questions

1. When is the effects-coding method of identification preferred over the fixed-factor method?
 - A. When the scale/metric of the indicators is meaningful**
 - B. When the scale is arbitrary
 - C. When we don't want inflated errors
 - D. When the loadings are correlated

2. Which one of the following is NOT synonymous?
 - A. Latent variable
 - B. Latent factor
 - C. Construct
 - D. Indicator**

3. What Greek symbol is used to represent the mean of an indicator?
 - A. Tau**
 - B. Lambda
 - C. Phi
 - D. Theta

4. Which of these is a useful function of phantom constructs?
 - A. They improve model fit
 - B. They provide better estimates of true score variance
 - C. They allow us to standardize latent relationships**
 - D. They better correct for missing observations

5. What best describes a model in which the number of observed variances and covariances is **GREATER** than the number of estimated parameters?
 - A. Just-identified
 - B. Over-identified**
 - C. Under-identified
 - D. Semi-identified

6. What best describes a model in which the number of observed variances and covariances is **LESS** than the number of estimated parameters?
 - A. Just-identified
 - B. Over-identified
 - C. Under-identified**
 - D. Semi-identified

7. What best describes a model in which the number of observed variances and covariances is **EQUAL to** the number of estimated parameters?
 - A. Just-identified**
 - B. Over-identified
 - C. Under-identified
 - D. Semi-identified

8. In Fixed Factor scale setting ...
 - A. **The latent variance is fixed to 1**
 - B. A loading, often the first one, is fixed to 1
 - C. The scale is set by making the loadings average 1
 - D. All item loadings are fixed to 1

9. In Effects Code scale setting ...
 - A. The latent variance is fixed to 1
 - B. A loading, often the first one, is fixed to 1
 - C. **The scale is set by making the loadings average 1**
 - D. All item loadings are fixed to 1

10. In Marker Method scale setting ...
 - A. The latent variance is fixed to 1
 - B. **A loading, often the first one, is fixed to 1**
 - C. The scale is set by making the loadings average 1
 - D. All item loadings are fixed to 1