Quiz 5 - Regrade Submission 1

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2. The factor score weight matrix is used to reconstruct the variables from the factors.

Original answer: True
Explanation: This is false because a matrix of common factor scores multiplied factor loadings and added to specfic factor scores are used to reconstruct the variables ($X = \Xi\Lambda + \Delta$)

5. After orthogonal rotation, it is possible for one of the rotated factors to have a larger eigenvalue than the largest eigenvalue found for the unrotated solution.

Original answer: True
Explanation: This is false because an orthogonal rotation doesn't change the amount of variance explained, it just changes the loadings on the factors.

6. An oblique rotation can account for more of the variability in the data than an orthogonal rotation with the same number of components.

Original answer: True
Explanation: This is false because there is only so much possible variance. An oblique rotation simply explains which components explain the variance, not how much is explained