

- cal and contextual effects in longitudinal analyses of human development* (pp. xx–xx). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Little, T. D., Cunningham, W. A., Shahar, G., & Widaman, K. F. (2002). To parcel or not to parcel: Exploring the question, weighing the merits. *Structural Equation Modeling*, 9, 151–173.
- Little, T. D., & Slegers, D. W. (2005). Factor analysis: Multiple groups with means. In B. Everitt & D. Howell (Eds.) & D. Rindskopf (Section Ed.), *Encyclopedia of statistics in behavioral science* (pp. 617–623). Chichester, UK: Wiley.
- Meredith, W. (1993). Measurement invariance, factor analysis and factorial invariance. *Psychometrika*, 58, 525–543.
- Millsap, R. E. (2001). When trivial constraints are not trivial: The choice of uniqueness constraints in confirmatory factor analysis. *Structural Equation Modeling*, 8, 1–17.
- Millsap, R. E., & Everson, H. (1991). Confirmatory measurement model comparisons using latent means. *Multivariate Behavioral Research*, 26, 479–497.
- Millsap, R. E., & Kwok, O. M. (2004). Evaluating the impact of partial factorial invariance on selection in two populations. *Psychological Methods*, 9, 93–115.
- Nesselroade, J. R. (in press). Factoring at the individual level: Some matters for the second century of factor analysis. In R. C. MacCallum & R. Cudeck (Eds.), *100 years of factor analysis*.
- Rindskopf, D. (1984). Using phantom and imaginary latent variables to parameterize constraints in linear structural models. *Psychometrika*, 49, 37–47.
- Reise, S. P., Widaman, K. F., & Pugh, R. H. (1994). Confirmatory factor analysis and item response theory: Two approaches for exploring measurement invariance. *Psychological Bulletin*, 114, 552–566.
- Rosenthal, R. (1994). Parametric measures of effect size. In H. Cooper & L. V. Hedges (Eds.), *The handbook of research synthesis* (pp. 231–244). New York: Russell Sage Foundation.

## APPENDIX A

### LISREL Script Used for the Effects Coding Method of Identification and Scale Setting

```

2-Group CFA of Affect Items: 7th Graders
DA NO=380 NG=2 NI=6 MA=CM ME=ML
ME
  3.13552 2.99061 3.06945 1.70069 1.52705 1.54483
SD
  0.66770 0.68506 0.70672 0.71418 0.66320 0.65276
KM
  1.00000
  0.75854 1.00000
  0.76214 0.78705 1.00000
  0.02766 0.00973 -0.05762 1.00000
-0.06112 -0.06105 -0.14060 0.78501 1.00000
-0.02222 -0.05180 -0.10250 0.81616 0.81076 1.00000
LA
  PosAFF1 PosAFF2 PosAFF3 NegAFF1 NegAFF2 NegAFF3
MO NX=6 NK=2 LX=FU,FI TD=DI,FR PH=SY,FR TX=FR KA=FR
FR LX(1,1) LX(2,1) LX(3,1)
CO LX(1,1) = 3-LX(2,1)-LX(3,1)
ST 1 LX(1,1) LX(2,1) LX(3,1)
FR LX(4,2) LX(5,2) LX(6,2)

```

## 72 LITTLE, SLEGGERS, CARD

CO LX(4,2) = 3-LX(5,2)-LX(6,2)

ST 1 LX(4,2) LX(5,2) LX(6,2)

CO TX(1) = 0-TX(2)-TX(3)

CO TX(4) = 0-TX(5)-TX(6)

LK

Positive Negative

OU SO SC

2-Group CFA of Affect Items: 8th Graders

DA NO=379

ME

3.07338 2.84716 2.97882 1.71700 1.57955 1.55001

SD

0.70299 0.71780 0.76208 0.65011 0.60168 0.61420

KM

1.00000

0.81366 1.00000

0.84980 0.83523 1.00000

-0.18804 -0.15524 -0.21520 1.00000

-0.28875 -0.24951 -0.33769 0.78418 1.00000

-0.29342 -0.21022 -0.30553 0.79952 0.83156 1.00000

LA

PosAFF1 PosAFF2 PosAFF3 NegAFF1 NegAFF2 NegAFF3

MO LX=IN PH=PS TD=PS TX=IN KA=FR

LK

Positive Negative

OU