



FACES IV

Scoring & Storing Data

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Scoring & Storing FACES IV Data using Excel

While you can score FACES IV by hand, we have designed an Excel file that matches the answer sheet from the Administration Manual. You can simply type in each person answers in each row. The data columns have been set up for 500 cases. If you need more cases, you can use the Excel pull down feature to extend the formulas down. A sample Excel file has been included for your review.

The Excel program will also sum the 10 items in the *Family Communication and Family Satisfaction* scales and provide a Total Raw Score and Percentile score for each scale.

I. Dimension Scores for Cohesion and Flexibility (*only for plotting*).

The dimension scores for Cohesion and Flexibility are only used for plotting the one location of the family onto the updated graphic representation of the Circumplex Model of Couple and Family Systems. For creating dimension scores, **use percentile score (%), not raw scores.**

Dimension scores should **not** be used for research since they are based on percentage scores which are linear. The Circumplex Model is based on the idea of curvilinear dimensions so that very low (0-15%) and very high (85-100%) represent unbalanced or problematic aspects of cohesion and flexibility.

In order to create a single score for cohesion and flexibility dimensions, the following formula was created. This dimension score is created by using the balanced score and adjusting it up or down the scale based on whether the difference in the two unbalanced scale is at the high or low of the dimension. Percentile scores are used for each scale, which are derived from the raw scores. There is a table in the Manual for converting raw scores into percentile scores. The formulas for the dimension scores are:

$$\text{Cohesion Dimension Score} = \text{Balanced Cohesion} + \frac{(\text{Enmeshed} - \text{Disengaged})}{2}$$

$$\text{Flexibility Dimension Score} = \text{Balanced Flexibility} + \frac{(\text{Chaotic} - \text{Rigid})}{2}$$

So if the Enmeshed score is higher than Disengaged, then the Balanced cohesion score is adjusted upward. If the Disengaged score is higher than the Enmeshed, the Balanced cohesion score is adjusted downward. The dimension score should NOT be used for research, but for plotting on to the Circumplex Model.

II. Creating Circumplex Ratio Scores (*for research purposes only*)

The Excel program will also create a ***Cohesion Ratio, Flexibility Ratio and Total Circumplex Ratio*** scores. This Balanced/Unbalanced ratio score is very useful since it indicates the level of functional versus dysfunctional behavior perceived in the family system. The ratio score is obtained by assessing the Balanced/Average Unbalanced score for each dimension. The lower the ratio score below one, the more unbalanced the system. Conversely, the higher the ratio score above one, the more balanced the system. The formulas are:

$$\text{Cohesion Ratio} = \frac{\text{Balanced Cohesion}}{(\text{Disengaged} + \text{Enmeshment}) / 2}$$

$$\text{Flexibility Ratio} = \frac{\text{Balanced Flexibility}}{(\text{Rigid} + \text{Chaotic}) / 2}$$

$$\text{Total Circumplex Ratio} = (\text{Cohesion Ratio} + \text{Flexibility Ratio}) / 2$$

Sharing Your Data for National Norms:

We would appreciate your willingness to share your data with us and we will use the data to create and update national norms for the scales and to do reliability and validity analysis. This is another reason that we have created the Excel spreadsheet so that you could forward the data to use using that form. The data could be sent to: data@facesiv.com

Thank you for your willingness to collaborate with us!