DIRT Class Assignment

Run an IRT analysis on the data from an Educational Psychology Test on **questions 2-5**.

1. Calculate the summary statistics on those questions.
   1. Looking at the items, what might you expect? Do some of them seem easier than others?
2. Calculate the models.
   1. Run a 2PL model.
   2. Run a 3PL model.
3. Include the following:
   1. ICCs for 2 and 3PL.
   2. TIF for 2 and 3PL.
4. Which model is better?
   1. Is the guessing parameter necessary?
5. Interpret your findings:
   1. Items:
      1. Which questions are good items for discrimination?
      2. Which questions measure below average ability (i.e. they are easy)?
      3. Which questions measure above average ability (i.e. they are hard)?
   2. Factor Scores:
      1. Do the patterns of factor scores match what would be expected for the data?
      2. Do those patterns fit the model? Which patterns are inconsistent?
      3. Do the items fit the model?