Item difficulty

- A decimal representing difficulty of the item; range: .0-1.0.
- % of students who get the item correct.
- The lower the value, the higher the difficulty; the higher the value, the lower the difficulty

General guidelines:
1. Not a set standard; correlates to question intention.
   - Mastery (easier) question: value close to 1.0 is acceptable.
   - Discriminating (more difficult) question: significantly lower value is acceptable.
2. If less than 60% of this group get the answer correct, the item needs further analysis.
3. If less of the upper 27% performers get it right than the lower 27% performers, there is an issue with the item.

Discrimination index

- Measures whether the item discriminate between high and low performers.
- % of the upper 27% performers that got the item correct - % of the lower 27% performers that got the item correct

General guidelines:
1. .2: discriminating (acceptable)
2. .3+: highly discriminating.

Point biserial

- Whether doing well on the specific item correlated with doing well on the exam overall.
- Is that item a good or bad predictor of overall performance on the exam.

General guidelines:
1. .2+: have positive association with overall performance on the exam.