Item Analysis

Part 1: Analysis - Item analysis

item result	test score
1	82
0	70
1	91
1	80
0	74
1	80
1	93
0	30
0	68
1	78

Determine Difficulty & Discrimination Indices
- Difficulty - Frequencies
- Discrimination - Point Biserial Correlation by hand

Assuming this was intended to be a moderately difficult item, was it a good item?

Part 2: Analysis - Item analysis

Test score	Item score
20	1
15	0
16	1
16	1
12	0
11	0
14	0
12	1

Determine the Difficulty and Discrimination indices.

Difficulty - Frequencies
Discrimination Index - point biserial
Interpretation?

Part 3: Analysis - Item analysis (classifications from mastery testing)

Test score	item score
20	1
15	0
16	1
16	1
12	0
11	0
14	0
12	1

Determine the Difficulty & Discrimination indices. Use cut score of (.80)(20) = 16

1. First, recode scores to classifications masters (1) and non masters (0) - use transform – recode
2. Difficulty index: Frequencies
3. Discrimination Index - Phi

Part 4: Analysis - Item analysis (classifications from mastery testing)

Use cut score (.70)(10) = 7

quiz score	item score
6	0
5	0
7	0
8	1
9	1
8	1
6	0
5	0
4	0
7	1

Determine Difficulty and Discrimination Indices