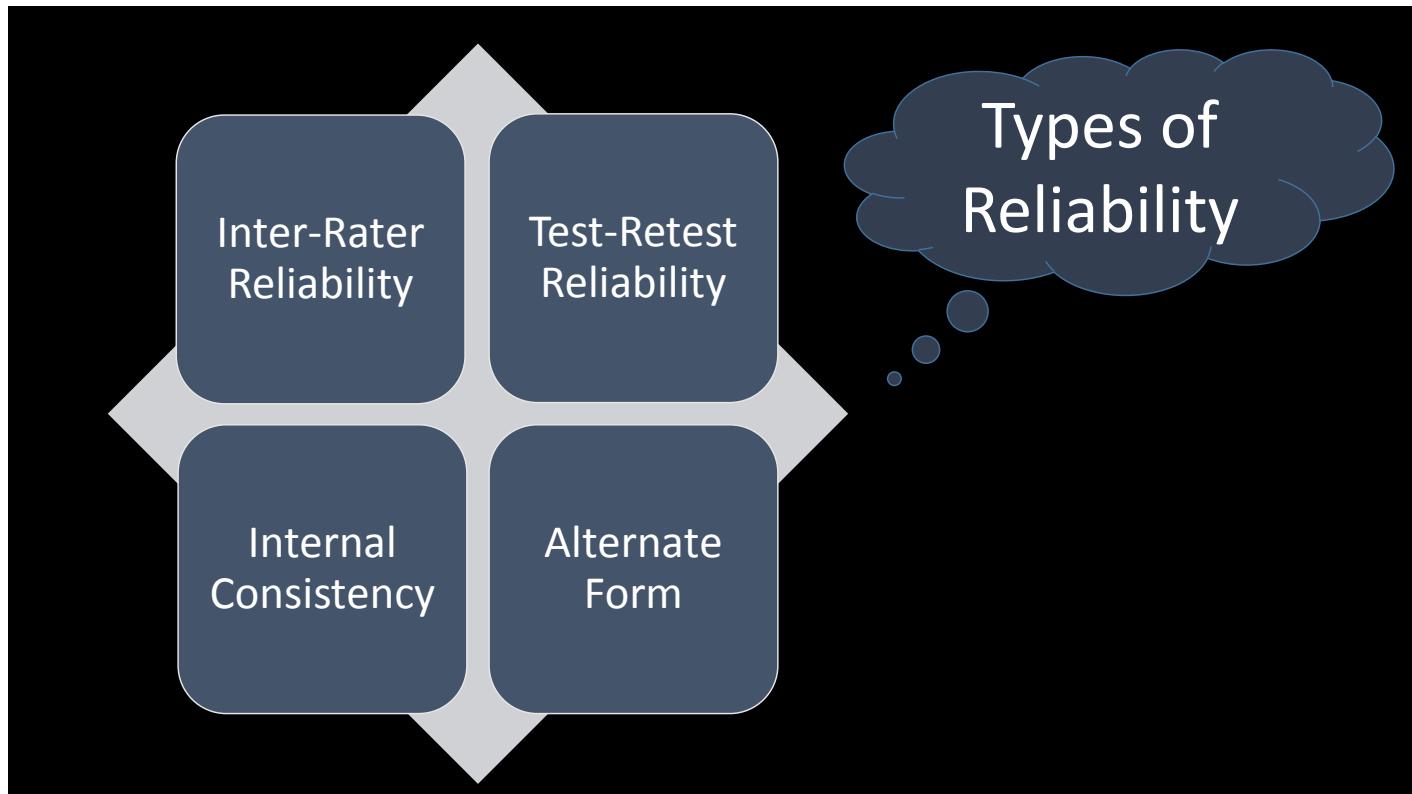
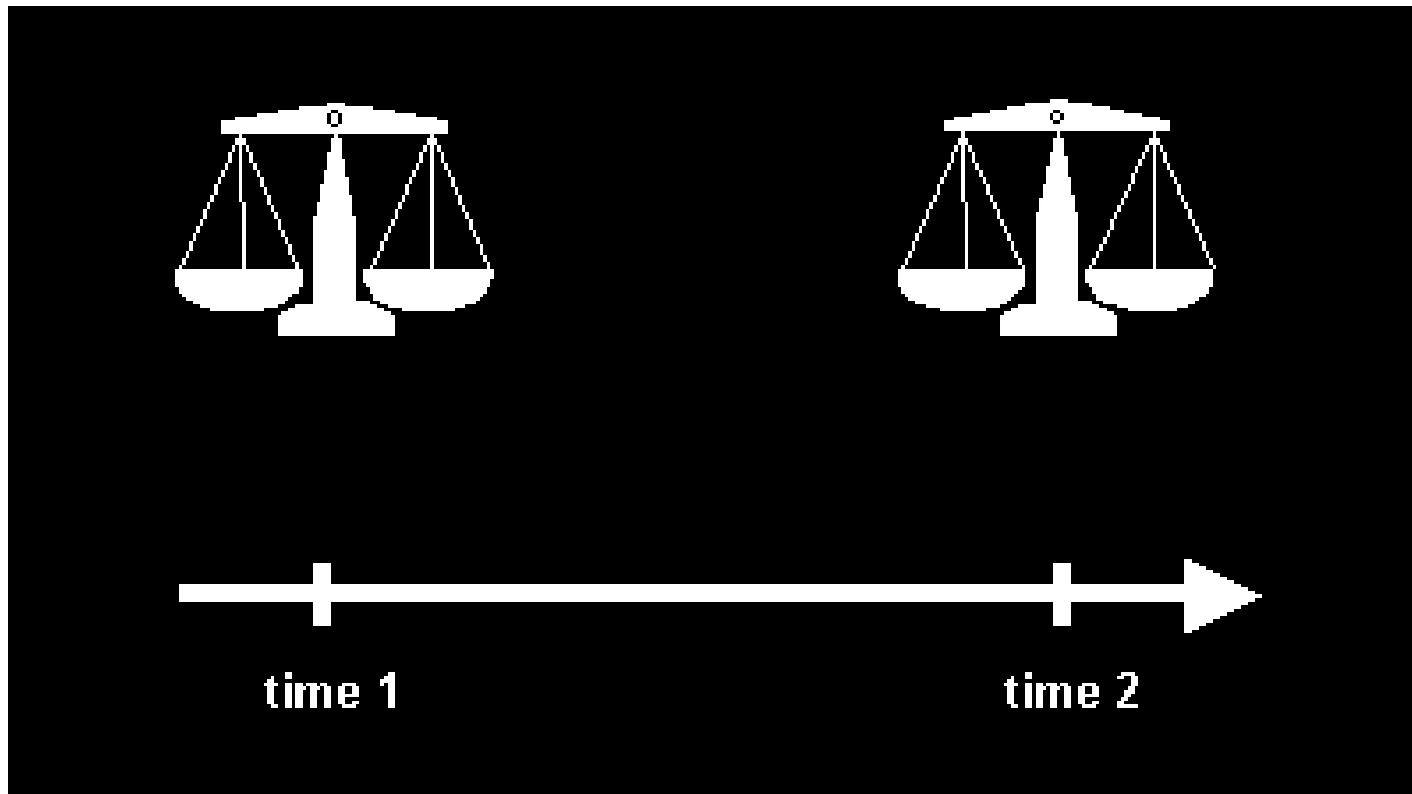


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Test – Retest Reliability

These slides accompany the YouTube Video Tutorial: https://www.youtube.com/watch?v=9L40_dFWr6o



Student ID	Exam score	Repeat score (same exam)
1	45	49
2	58	60
3	32	41
4	54	58
5	48	54

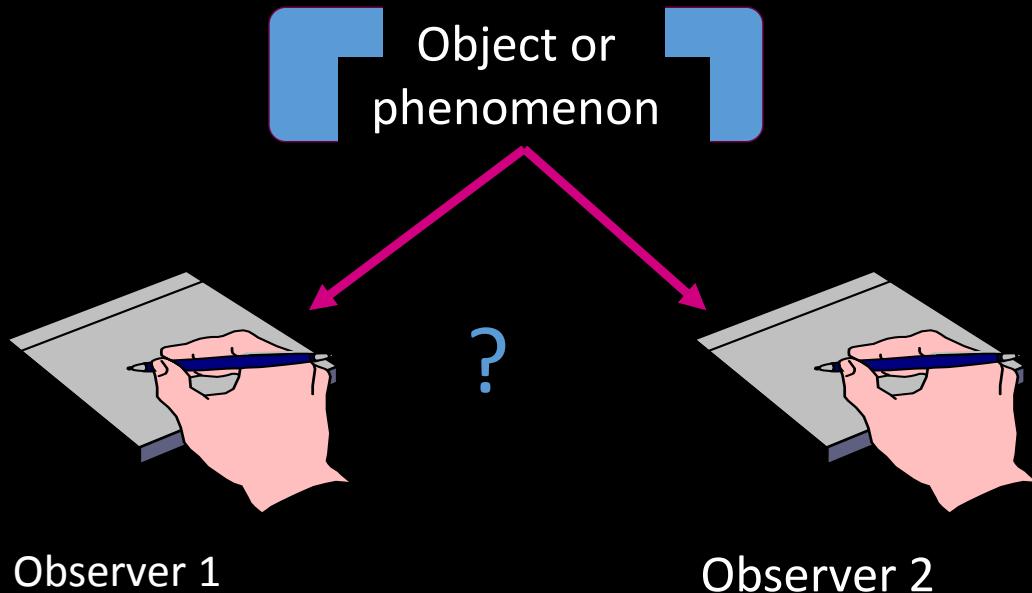
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Parallel or Alternate Form Reliability

Student ID	Exam A score	Exam B score
1	57	58
2	54	56
3	41	45
4	32	41
5	58	57

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Inter-Rater Reliability or Inter-Observer Reliability or Inter-Coder Reliability



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- Consensus in observations among different people (assuming observation are the same)
- Degree of scoring stability a measure yields across multiple observers
- Measure of agreement among raters
- Improving Rater Reliability – Training/ Guided Revisions

What affects Inter-Rater Reliability?

- Halo Effect (one dimension influencing others)
- Stereotyping (impressions on group may influence individual)
- Perception Differences (rater viewpoints and past experiences)
- Leniency/Stringency Error (lack of knowledge)

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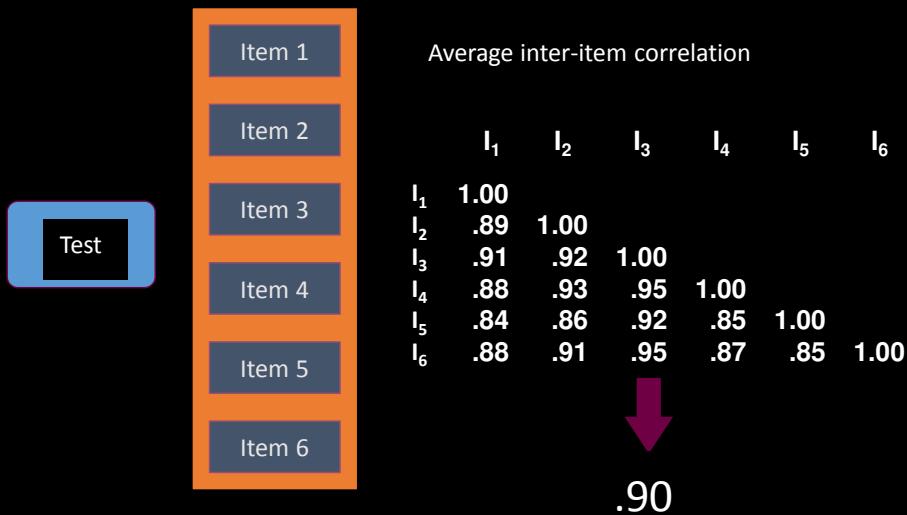
Internal Consistency Reliability

Internal Consistency Reliability

- Extent to which the items of a measure assess a common characteristic
- Single measurement instrument administered to a group on one occasion
- Estimate how well items that reflect the same construct yield similar results
- How consistent the results are for different items for the same construct within the measure

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Average Inter-Item Correlation



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Average Item Total Correlation



Average item-total correlation

	I_1	I_2	I_3	I_4	I_5	I_6	
I_1	1.00						
I_2	.89	1.00					
I_3	.91	.92	1.00				
I_4	.88	.93	.95	1.00			
I_5	.84	.86	.92	.85	1.00		
I_6	.88	.91	.95	.87	.85	1.00	
Total	.84	.88	.86	.87	.83	.82	1.00

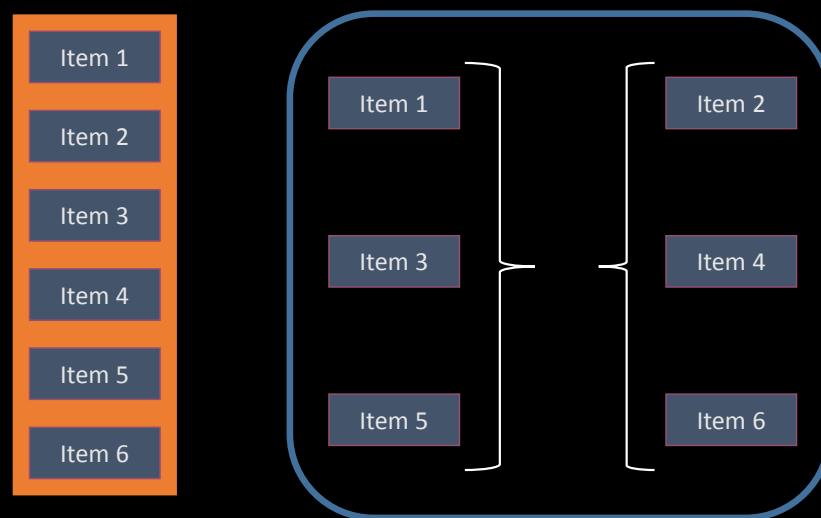
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Split Half Reliability

Spearman–Brown prediction formula



These slides accompany the YouTube Video Tutorial: https://www.youtube.com/watch?v=9L40_dFWr6o

Student ID	Score on even items	Score on odd items
1	23	24
2	30	29
3	26	25
4	19	20
5	24	23

Cronbach Alpha (α)

Average of all possible split-half correlations

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