

# Par SCORE

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## Understanding Statistical Information on Item Analysis Reports

  
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# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

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Course #:	45223	Instructor:	Prof. Scantron
Course Title:	Mgmt 449	Description:	Strategic Management
Day/Time:	T,R 8-9AM	Term/Year:	Fall

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Total Possible Points:	100.00	Median Score:	80.00	Mean Score:	81.25
Student in this group:	8	Mode Score:	78.00	Variance:	79.94
Standard Deviation:	8.94	Highest Score:	100.00	Lowest Score:	66.00
Measure of Skewness:	0.53	Degree of Kurtosis:	0.49	Reliability Coefficient (KR20):	0.71

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### Item 1

Answer: A  
Point Biserial: 0.60

Correct Responses: Total Group: 75.00%  
Upper 27% of Group: 100.00%  
Lower 27% of Group: 50.00%

Distractor Analysis - \* indicates correct answer:

	*A	B	C	D	E
Pt-Biser.:	0.60	-0.60	0.00	0.00	0.00
Frequency%:	75.00	25.00	0.00	0.00	0.00

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# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223  
Course Title: Mgmt 449  
Day/Time: T,R 8-9AM

Instructor: Prof. Scantron

**Total points possible  
on this exam.**

Total Possible Points:	100.00	Mean Score:	81.25
Student in this group:	8	Mean Score:	79.94
Standard Deviation:	8.94	Highest Score:	100.00
Measure of Skewness:	0.53	Lowest Score:	66.00
		Degree of Kurtosis:	0.49
		Reliability Coefficient (KR20):	0.71

### Item 1

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Frequency%:	75.00	25.00	0.00	0.00	0.00

# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223  
Course Title: Mgmt 449  
Day/Time: T,R 8-9AM

Instructor: Prof. Scantron  
Description: Strategic Management

Total Possible Points: 100.00  
Student in this group: 8  
Standard Deviation: 8.94  
Measure of Skewness: 0.53

Number of students  
who took this version  
of the exam.

81.25  
79.94  
66.00  
Coefficient (KR20): 0.71

### Item 1

Answer: A  
Point Biserial: 0.60

Correct Responses: Total Group: 75.00%  
Upper 27% of Group: 100.00%  
Lower 27% of Group: 50.00%

Distractor Analysis - \* indicates correct answer:

	*A	B	C	D	E
Pt-Biser.:	0.60	-0.60	0.00	0.00	0.00
Frequency%:	75.00	25.00	0.00	0.00	0.00

# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223  
Course Title: Mgmt 449  
Day/Time: T,R 8-9AM

Total Possible Points: 100.00  
Student in this group: 8  
Standard Deviation: 8.94  
Measure of Skewness: 0.53

Standard deviation is a measure of how student scores vary from the mean score. (Used in setting grades or “grading on a curve”.)

**Item 1**  
Answer: A  
Point Biserial: 0.60

Lower 27% of Group: 50.00%

Distractor Analysis - \* indicates correct answer:

	*A	B	C	D	E
Pt-Biser.:	0.60	-0.60	0.00	0.00	0.00
Frequency%:	75.00	25.00	0.00	0.00	0.00

# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223  
Course Title: Mgmt 449  
Day/Time: T,R 8-9AM

Instructor: Prof. Scantron  
Description: Strategic Management  
Term/Year: Fall

Total Possible Points: 100.00  
Student in this group: 8  
Standard Deviation: 8.94  
Measure of Skewness: 0.53

**Degree of asymmetry  
of the distribution  
around its mean.**

Mean: 81.25  
Standard Error: 79.94  
Score: 66.00  
Coefficient (KR20): 0.71

### Item 1

Answer: A  
Point Biserial: 0.60

75.00%  
Upper 21% of Group: 100.00%

**Positive skewness means that scores tend to be higher.  
Negative skewness means that scores tend to be lower.**

# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223 Instructor: Prof. Scantron  
Course Title: Mgmt 449 Description: Strategic Management  
Day/Time: T,R 8-9AM Term/Year: Fall

Total Possible Points: 100.00 Median Score: 80.00 Mean Score: 81.25  
Student in this group: 8 Mode Score: 78.00 Variance: 79.94  
Standard Deviation: 66.00  
Measure of Skewness: Coefficient (KR20): 0.71

**Item 1** Ans 75.00%  
Point 100.00%  
Dis 50.00%

**Median score is the score that lies in the middle, when scores are arranged numerically.**

**Example: If the student scores are 66, 78, 79, 91, & 91, the median score is 79.**

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## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223 Instructor: Prof. Scantron  
Course Title: Mgmt 449 Description: Strategic Management  
Day/Time: T,R 8-9AM Term/Year: Fall

Total Possible Points:	100.00	Median Score:	80.00	Mean Score:	81.25
Student in this group:	8	Mode Score:	78.00	Variance:	79.94
Standard Deviation:	8.94	Highest Score:	100.00	Lowest Score:	66.00
Measure of Skewness:				Coefficient (KR20):	0.71

### Item 1

Answer:  
Point Bis  
Distract

**Mode score is the most frequently occurring score.**

75.00%  
p: 100.00%  
p: 50.00%

**Example: If the student scores are 66, 78, 79, 91, & 91, the mode score is 91.**



# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223

Instructor: Prof. Scantron

Course Title: Mgmt 449

Description: Strategic Management

Day/Time: T,R

**Highest score on the exam.**

Total Possible Points				81.25
Student in this group:	8	Mode Score:	78.00	Variance: 79.94
Standard Deviation:	8.94	Highest Score:	100.00	Lowest Score: 66.00
Measure of Skewness:	0.53	Degree of Kurtosis:	0.49	Reliability Coefficient (KR20): 0.71

### Item 1

Answer: A

Correct Responses: Total Group: 75.00%

Point Biserial: 0.60

Upper 27% of Group: 100.00%

Lower 27% of Group: 50.00%

Distractor Analysis - \* indicates correct answer:

	*A	B	C	D	E
Pt-Biser.:	0.60	-0.60	0.00	0.00	0.00
Frequency%:	75.00	25.00	0.00	0.00	0.00

# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223

Instructor: Prof. Scantron

Course Title: Mgmt 449

Description: Strategic Management

Day/Time:

**The degree of peakedness or flatness seen in score distributions.**

Total Possible

81.25

Student in thi

79.94

Standard Deviation: 8.94

Highest Score: 100.00

Lowest Score: 66.00

Measure of Skewness: 0.53

Degree of Kurtosis: 0.49

Reliability Coefficient (KR20): 0.71

A *positive* kurtosis means the score distribution is peaked (i.e., some students scored very high and some very low, so there is a huge difference between top and lower students)

A *negative* kurtosis means the score distribution is flat. (i.e., everyone scored about the same, so maybe the test was too easy)

A *near zero* value for kurtosis is a normal score distribution (i.e., a few A's, some B's, some C's, a few D's, and one or two F's)

# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45002 Instructor: Prof. Scantron  
Course Title: Management  
Day/Time: T

Total Possible P  
Student in this g  
Standard Deviat  
Measure of Skewness:

**Total of scores divided by  
the number of scores.  
(Same as average score.)**

Mean Score: 81.25  
Variance: 79.94  
Lowest Score: 66.00  
Reliability Coefficient (KR20): 0.71

0.53 Degree of Kurtosis: 0.49

### Item 1

Answer: A  
Point Biserial: 0.60

Correct Responses: Total Group: 75.00%  
Upper 27% of Group: 100.00%  
Lower 27% of Group: 50.00%

Distractor Analysis - \* indicates correct answer:

	*A	B	C	D	E
Pt-Biser.:	0.60	-0.60	0.00	0.00	0.00
Frequency%:	75.00	25.00	0.00	0.00	0.00

# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223 Instructor: Prof. Scantron  
Course Title: Mgmt 449 Description: Strategic Management  
Day/Time: T, P 8:00 AM Term/Year: Fall

### Measure of variability

Total Possible Points	Mean Score:	81.25
Student in this group	Variance:	79.94
Standard Deviation: 8.94	Highest Score: 100.00	Lowest Score: 66.00
Measure of Skewness: 0.53	Degree of Kurtosis: 0.49	Reliability Coefficient (KR20): 0.71

### Item 1

Answer: A Correct Responses: Total Group: 75.00%  
Point Biserial: 0.60 Upper 27% of Group: 100.00%  
Lower 27% of Group: 50.00%

Distractor Analysis - \* indicates correct answer:

	*A	B	C	D	E
Pt-Biser.:	0.60	-0.60	0.00	0.00	0.00
Frequency%:	75.00	25.00	0.00	0.00	0.00

# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223 Instructor: Prof. Scantron  
Course Title: Mgmt 449 Description: Strategic Management  
Day/Time: T,R 8-9AM Term/Year: Fall

Total Score:	<b>Lowest score on the exam.</b>			Mean Score:	81.25
Standard Deviation:	8.94	Highest Score:	100.00	Variance:	79.94
Measure of Skewness:	0.53	Degree of Kurtosis:	0.49	Lowest Score:	66.00
				Reliability Coefficient (KR20):	0.71

### Item 1

Answer: A  
Point Biserial: 0.60

Correct Responses: Total Group: 75.00%  
Upper 27% of Group: 100.00%  
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Distractor Analysis - \* indicates correct answer:

	*A	B	C	D	E
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# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223 Instructor: Prof. Scantron  
Course Title: Mgmt 449 Strategic Management  
Day/Time: T,R 8

Total Possible Points:		Highest Score:	100.00	Mean Score:	81.25
Student in this group:		Degree of Kurtosis:	0.49	Variance:	79.94
Standard Deviation:	8.94			Lowest Score:	66.00
Measure of Skewness:	0.53			Reliability Coefficient (KR20):	0.71

**The consistency of the test items.**

### Item 1

If the same students took the same test on two different dates, they would have similar scores. KR20 helps in determining inconsistencies such as cheating. A reliable test will have a reliability coefficient of .70 or higher.

# Detailed Item Analysis Report

## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223  
Course Title: Mgmt 449  
Day/Time: T,R 8-9AM

Instructor: Prof. Scantron

Total Possible Points: 100.00  
Student in this group: 8  
Standard Deviation: 8.94  
Measure of Skewness: 0.53

11.25  
79.94  
66.00  
0.71

**Point Biserial (PBCC) measures how well a question discriminates between "A" students, "B" students, etc.**

### Item 1

Answer: A

Point Biserial: 0.60

Correct Responses: Total Group: 75.00%  
Upper 27% of Group: 100.00%

Distractor Analysis - \*

\*A B

Pt-Biser.: 0.60 -0

Frequency%: 75.00 25

**.30 or above = very good test question  
.20 to .29 = reasonably good test question  
.09 to .19 = needs improvement  
below .09 = poor test question**

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## Scantron University Detailed Item Analysis Report On Midt1 Version A

Course #: 45223  
Course Title: Mgmt 449  
Day/Time: T,R 8-9AM

Instructor: Prof. Scantron  
Description: Strategic Management  
Term/Year: Fall

Measures how well each response discriminates between "A" students, "B" students, etc.

Mean Score: 81.25  
Variance: 79.94  
Lowest Score: 66.00  
Reliability Coefficient (KR20): 0.71

Percentiles:  
Total Group: 75.00%  
Upper 27% of Group: 100.00%  
Lower 27% of Group: 50.00%

	*A	B	C	D	E
Pt-Biser.:	0.60	-0.60	0.00	0.00	0.00
Frequency%:	75.00	25.00	0.00	0.00	0.00



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Course #: 45223	Instructor: Prof. Scantron
Course Title: Mgmt 449	Description: Strategic Management
Day/Time: T,R 8-9AM	Term/Year: Fall

Total Possible Points:	100.00	Median Score:	80.00	Mean Score:	81.25
Student in this group:	8	Mode Score:	78.00	Variance:	79.94
Standard Deviation:	8.94	Highest Score:	100.00	Lowest Score:	66.00
Measure of Skewness:	0.53	Degree of Kurtosis:	0.48	Reliability Coefficient (KR20):	0.71

**Shows the percent of students who chose that response.**

Total Group:	75.00%
Upper 27% of Group:	100.00%
Lower 27% of Group:	50.00%

	*A	B	C	D	E
Pt-Biser.:	0.60	-0.60	0.00	0.00	0.00
Frequency%:	75.00	25.00	0.00	0.00	0.00

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Course #: 45223  
Course Title: Mgmt 449  
Day/Time: T,R 8-9AM

Instructor: Prof. Scantron

This shows the percent of students who answered question one correctly.

Total Possible Points:	100.00	Median Score:	
Student in this group:	8	Mode Score:	
Standard Deviation:	8.94	Highest Score:	
Measure of Skewness:	0.53	Degree of Kurtosis:	0.49
		Reliability Coefficient (KR20):	0.71

### Item 1

Answer: A  
Point Biserial: 0.60

Correct Responses: Total Group: 75.00%  
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Frequency%:	75.00	25.00	0.00	0.00	0.00

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Course #: 45223  
Course Title: Mgmt 449  
Day/Time: T,R 8-9AM

Total Possible Points: 100.00      Median Score:  
Student in this group: 8      Mode Score:  
Standard Deviation: 8.94      Highest Score:  
Measure of Skewness: 0.53      Degree of Ku

Shows what percent of the students who scored in the top 27% on the exam answered question one correctly.

### Item 1

Answer: A  
Point Biserial: 0.60

Correct Responses: Total Group: 75.00%  
Upper 27% of Group: 100.00%  
Lower 27% of Group: 50.00%

Distractor Analysis - \* indicates correct answer:

	*A	B	C	D	E
Pt-Biser.:	0.60	-0.60	0.00	0.00	0.00
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Course #: 45223  
Course Title: Mgmt 449  
Day/Time: T,R 8-9AM

Total Possible Points: 100.00      Median Score  
Student in this group: 8      Mode Score:  
Standard Deviation: 8.94      Highest Score  
Measure of Skewness: 0.53      Degree of Ku

Shows what percent of the students who scored in the lower 27% on the exam answered question one correctly.

### Item 1

Answer: A  
Point Biserial: 0.60

Upper 27% of Group: 100.00%

Lower 27% of Group: 50.00%

Distractor Analysis - \* indicates correct answer:

	*A	B	C	D	E
Pt-Biser.:	0.60	-0.60	0.00	0.00	0.00
Frequency%:	75.00	25.00	0.00	0.00	0.00