DEPARTMENTAL ASSESSMENT REPORT

Department: Mathematics
Academic Year: **2014** Semester: **Fall**
Course Assessed: **Math 099 MOD Fundamentals of Intermediate Algebra and Geometry**
No of Students Assessed: 173
Type of Assessmer **A 25-problem final exam.**

Course Coordinator: **Jose Hernandez**

ANALYSIS OF OVERALL RESULTS

1. Expected competency level:	**40%**
2. How many students met the competency level?	151
3. What % of students met the competency level?	87%
4. No. of students enrolled in the course:	260
5. No. of students completing the final exam:	161
6. % of students completing the final exam:	93%
7. No. of students receiving a grade C or better:	144
8. % of students receiving a grade C or better:	83%
9. % of enrolled students passing with C or better:	55%

10. What objectives were not met by the majority of the students:
See the objectives below.
11. Was the assessment instrument adequate:
Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured? Why not? Is it possible to make the instrument such that to measure all objectives?
All objectives were measured.
13. Comments - Recommendations:

Objective # 1 Simplifying expressions containing rational exponents
Assessed by problem #1.
Number of correct answers: 111
% of correct answers: 64%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 2 Perform operations on and simplify radicals
Assessed by problem # 2.
Number of correct answers: 67
% of correct answers: 39%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 3 Perform operations on and simplify rational expressions
Assessed by problem # 3.
Number of correct answers: 87
% of correct answers: 50%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 4 A Solve quadratic equations with real solutions
Assessed by problem # 4.
Number of correct answers: 105
% of correct answers: 61%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 4 B Solve quadratic equations with real solutions
Assessed by problem # 5
Number of correct answers: 83
% of correct answers: 48%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 5 Solve rational equations
Assessed by problem # 6
Number of correct answers: 104
% of correct answers: 60%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 6 Solve absolute value equations
Assessed by problem # 7
Number of correct answers: 84
% of correct answers: 49%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 7 Solve radical equations
Assessed by problem # 8
Number of correct answers: 122
% of correct answers: 71%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 8 Solve compound linear inequalities
Assessed by problem # 9
Number of correct answers: 47
% of correct answers: 27%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 9 Solve systems of linear inequalities in two variables
Assessed by problem # 10
Number of correct answers: 48
% of correct answers: 28%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 10 Solve systems of linear equations in two and three variables
Assessed by problem # 11
Number of correct answers: 99
% of correct answers: 57%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 11 Formulate and apply an equation, inequality or system of linear equations
Assessed by problem # 12.
Number of correct answers: 124
% of correct answers: 72%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 12 Solve and evaluate literal equations, including nonlinear equations
Assessed by problem # 13.
Number of correct answers: 95
% of correct answers: 55%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 13. Formulate and apply nonlinear literal equations
Assessed by problem # 14.
Number of correct answers: 127
% of correct answers: 73%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 14 A Graph linear and quadratic equations
Assessed by problem # 15.
Number of correct answers: 47
% of correct answers: 27%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 14 B Graph linear and quadratic equations
Assessed by problem # 16
Number of correct answers: 140
% of correct answers: 81%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 15 Equations of lines, parallel and perpendicular line
Assessed by problem # 17.
Number of correct answers: 123
% of correct answers: 71%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 16 Given relationships represented in multiple forms are functions
Assessed by problem # 18.
Number of correct answers: 71
% of correct answers: 41%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 17 Determine domain and range from the graph of a function
Assessed by problem # 19.
Number of correct answers: 123
% of correct answers: 71%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 18 Formulate and apply the concept of a function to contextual situation
Assessed by problem # 20.
Number of correct answers: 47
% of correct answers: 27%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 19 Interpret slope in a linear model as a rate of change
Assessed by problem # 21.
Number of correct answers: 144
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 20 A Apply formulas of perimeter, area, and volume to 2 - and 3 dimensions
Assessed by problem # 22.
Number of correct answers: 50
% of correct answers: 29%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 20 B Apply formulas of perimeter, area, and volume to 2 - and 3 dimensions
Assessed by problem # 23.
Number of correct answers: 88
% of correct answers: 51%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

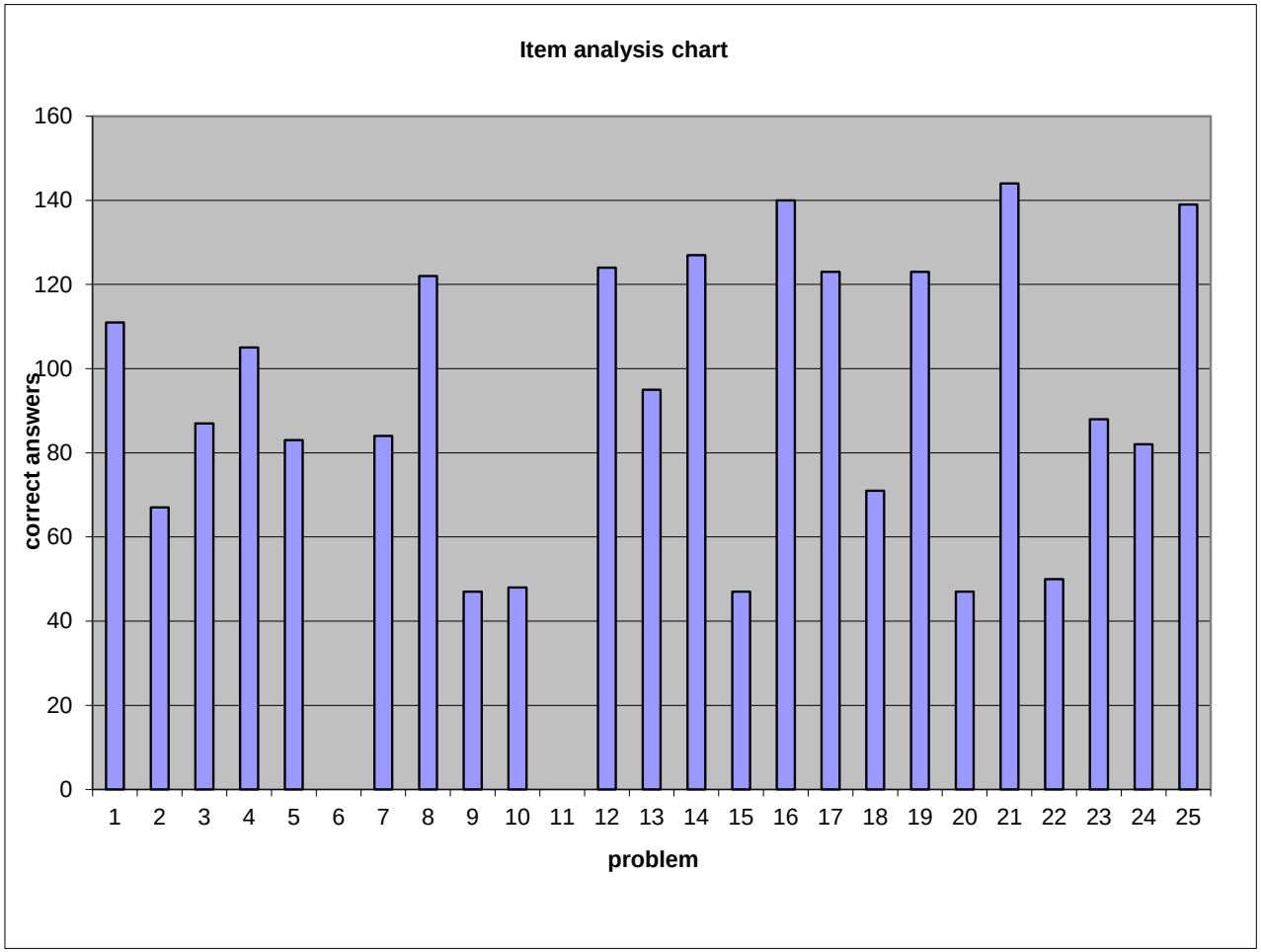
Objective # 21 Apply the Pythagorean Theorem
Assessed by problem # 24
Number of correct answers: 82
% of correct answers: 47%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 22 Apply the concepts of similarity and congruency of triangles
Assessed by problem # 25
Number of correct answers: 139
% of correct answers: 80%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Math 099 MOD Item analysis chart, graph SP 2014

Table I

Problems	Frequency
1	111
2	67
3	87
4	105
5	83
6	0
7	84
8	122
9	47
10	48
11	0
12	124
13	95
14	127
15	47
16	140
17	123
18	71
19	123
20	47
21	144
22	50
23	88
24	82
25	139

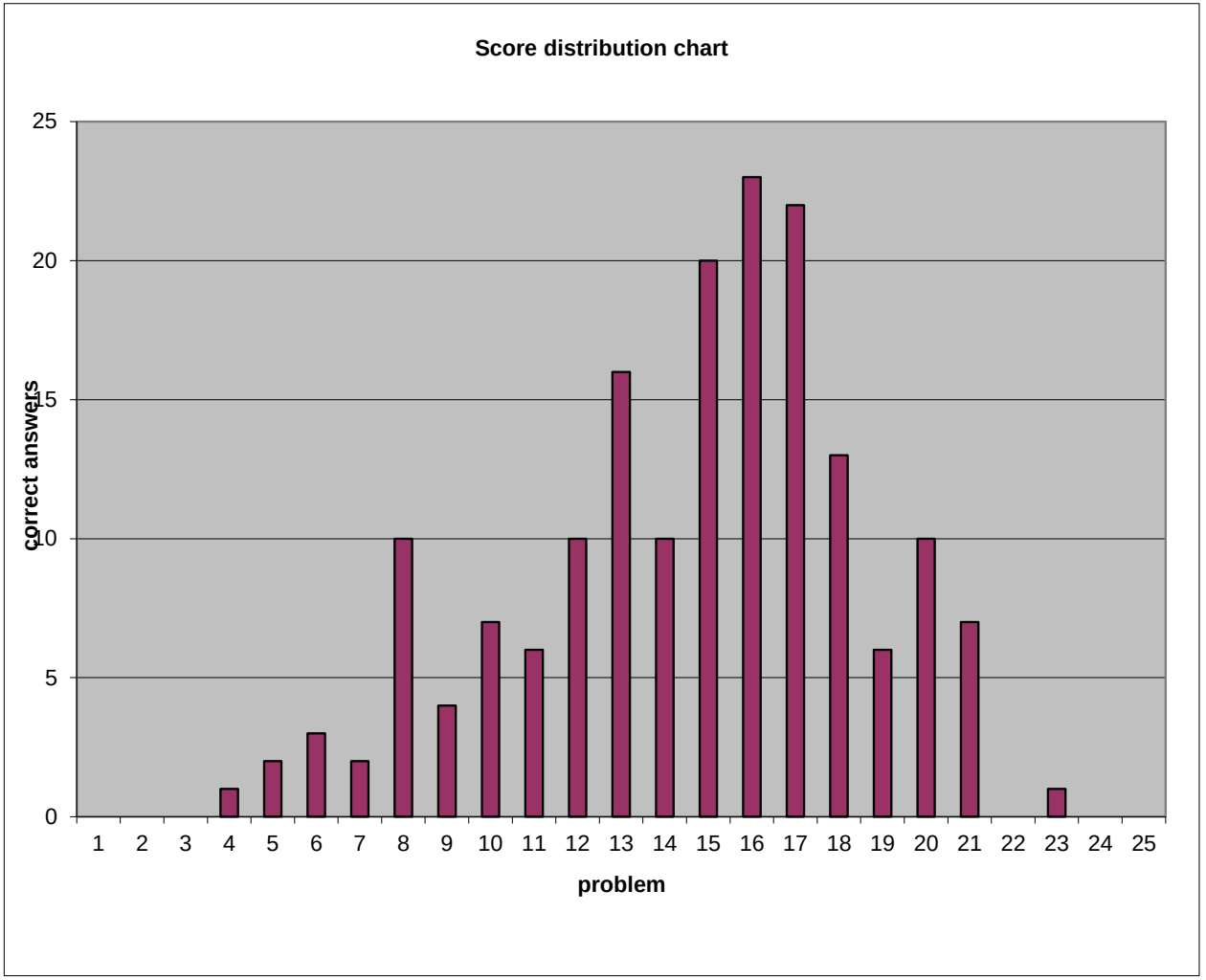


The above table indicates the number of correct answers for each problem of the assessment instrument.

SP 2014 Math 099 MOD Score Distribution graph

Table II

Problem	Score
1	0
2	0
3	0
4	1
5	2
6	3
7	2
8	10
9	4
10	7
11	6
12	10
13	16
14	10
15	20
16	23
17	22
18	13
19	6
20	10
21	7
22	0
23	1
24	0
25	0
Totals	173



Math 099 MOD Grade Distribution SP 2014

Table III

Grade	Frequency
A	4
B	5
C	5
D	1
F	7
ADW	0
WTH	7
TOTALS	0

Section	A	B	C	D	F	ADW	WTH	Totals
M 099 AC MD								
M 099 BD MD								
M099 EG MD	6	5	11	2	5	4	3	36
M 099 FH MD	1	4	10	3	12	3	8	41
M O99 IK MD								
M 099 JL MD	8	17	6	1	5	1	4	42
M 099 OQ MD								
M 099 PR MD	13	8	4	1	4	3	7	40
M 099 UV MD	9	7	7	2	8	2	4	39
M099 HUOQ MD	2	6	6	6	0	6	7	33
M 099 SAT MD	4	5	5	1	7	0	7	29

SP 2014 Math 099 MOD - Item Analysis, correct answers for each problem

Section	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	#14	#15	#16	# 17	# 18	# 19	# 20	# 21	# 22	# 23	# 24	#25	Class Size
M 099 AC MD																										
M 099 BD MD																										
M099 EG MD	13	5	10	9	7	9	7	17	5	0	13	19	8	15	4	20	18	8	21	2	21	5	12	6	17	21
M 099 FH MD	19	14	14	19	13	15	18	17	8	8	14	20	15	21	8	24	24	8	16	11	25	8	15	13	23	25
M O99 IK MD																										
M 099 JL MD	23	14	16	26	21	22	13	24	8	13	21	16	19	27	12	29	23	19	19	22	17	19	15	22	26	30
M 099 OQ MD	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
M 099 PR MD	19	10	12	13	11	19	16	20	8	5	15	20	13	18	2	23	21	8	17	5	22	6	15	8	20	24
M 099 UV MD	11	8	10	11	9	12	9	17	8	5	15	20	19	18	12	17	19	14	21	3	26	5	14	16	23	26
M099 HUOQ MI	11	9	11	14	11	15	10	13	2	2	9	15	10	16	4	14	5	8	14	3	16	2	9	7	14	17
M 099 SAT MD	15	7	14	13	11	12	11	14	8	15	12	14	11	12	5	13	13	6	15	1	17	5	8	10	16	18
TOTALS	111	67	87	105	83	104	84	122	47	48	99	124	95	127	47	140	123	71	123	47	144	50	88	82	139	161

SP 2014 Math 099 MOD - Score Distribution, number of correct answers per problem

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 099 AC MD																										
M 099 BD MD																										
M099 EG MD	0	0	0	0	0	1	1	0	2	3	1	2	4	2	4	1	1	0	1	1	0	0	0	0	0	24
M 099 FH MD	0	0	0	0	0	0	0	0	0	2	1	0	1	2	4	3	2	4	1	3	2	0	0	0	0	25
M O99 IK MD																										
M 099 JL MD	0	0	0	0	0	0	0	1	0	0	1	2	2	1	7	6	6	2	2	0	1	0	0	0	0	31
M 099 OQ MD																										0
M 099 PR MD	0	0	0	0	0	0	1	0	1	0	1	3	2	3	1	2	6	2	0	1	1	0	0	0	0	24
M 099 UV MD	0	0	0	0	2	1	0	8	1	0	2	3	5	0	1	5	3	1	0	1	0	0	1	0	0	34
M099 HUOQ MI	0	0	0	0	0	0	0	1	0	1	0	0	2	2	2	4	3	1	1	0	0	0	0	0	0	17
M 099 SAT MD	0	0	0	1	0	1	0	0	0	1	0	0	0	0	1	2	1	3	1	4	3	0	0	0	0	18
TOTALS	0	0	0	1	2	3	2	10	4	7	6	10	16	10	20	23	22	13	6	10	7	0	1	0	0	173

DEPARTMENTAL ASSESSMENT REPORT

Department: Mathematics
Academic Year: **2014** Semester: **Fall**
Course Assessed: **Math 090**
No of Students Assessed: 25
Type of Assessmer **A 25-problem final exam.**

Course Coordinator: **Patricia Miceli**

ANALYSIS OF OVERALL RESULTS

1. Expected competency level: **40%**
2. How many students met the competency level? 24
3. What % of students met the competency level? 96%
4. No. of students enrolled in the course: 36
5. No. of students completing the final exam: 25
6. % of students completing the final exam: 69%
7. No. of students receiving a grade C or better: 15
8. % of students receiving a grade C or better: 60%
9. % of enrolled students passing with C or better: 42%
10. What objectives were not met by the majority of the students:
    Objectives 8,was not met by the majority of students
11. Was the assessment instrument adequate:
    Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured? Why not? Is it possible to make the instrument such that to measure all objectives?
    All objectives were measured.
13. Comments - Recommendations:

Objective # 1 Problem-solving steps and strategies to form conjectures.
Assessed by problem #1.
Number of correct answers: 21
% of correct answers: 84%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 2 Set definitions, notations, relationships, perform operations on sets.
Assessed by problem # 2.
Number of correct answers: 18
% of correct answers: 72%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 3 Define a function, an equation, a function machine, ordered pairs, graph.
Assessed by problem # 3.
Number of correct answers: 10
% of correct answers: 40%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 4 Use logic in math thinking and problem solving.
Assessed by problem # 4.
Number of correct answers: 9
% of correct answers: 36%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 5 Know properties of numeration systems, give basic structure.
Assessed by problem # 5.
Number of correct answers: 23
% of correct answers: 92%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 6 Perform operations on whole numbers.
Assessed by problem # 6.
Number of correct answers: 21
% of correct answers: 84%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 7 Perform operations on integers.
Assessed by problem # 7.
Number of correct answers: 13
% of correct answers: 52%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 8 Use divisibility tests.
Assessed by problem # 8.
Number of correct answers: 20
% of correct answers: 80%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 9 Determine prime composite numbers and number of divisors.
Assessed by problem # 9.
Number of correct answers: 18
% of correct answers: 72%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 10 Determine greatest divisor and least multiple for more natural numbers.
Assessed by problem # 10.
Number of correct answers: 9
% of correct answers: 36%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 11 Solve problems using clocks and modular arithmetic. page 4
Assessed by problem # 11.
Number of correct answers: 19
% of correct answers: 76%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 12 Represent rational numbers and know the properties.
Assessed by problem # 12.
Number of correct answers: 19
% of correct answers: 76%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 13. Know and use the properties of exponents.
Assessed by problem # 13.
Number of correct answers: 20
% of correct answers: 80%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 14 Perform operations on decimals.
Assessed by problem # 14.
Number of correct answers: 17
% of correct answers: 68%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 15 Know properties and perform operations on real numbers.
Assessed by problem # 15.
Number of correct answers: 21
% of correct answers: 84%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 16 Algebraic skills writing and solving equations and inequalities in word problems
Assessed by problem # 16.
Number of correct answers: 21
% of correct answers: 84%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 17 Formulate word problems as mathematical problems.
Assessed by problem # 17.
Number of correct answers: 13
% of correct answers: 52%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 18 Use properties of decimals to solve problems.
Assessed by problem # 18.
Number of correct answers: 17
% of correct answers: 68%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:
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Objective # 19 Use properties of ratios proportional to solve problems.
Assessed by problem # 19.
Number of correct answers: 19
% of correct answers: 76%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 20 Define and determine percents.
Assessed by problem # 20.
Number of correct answers: 16
% of correct answers: 64%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 21 Use properties in percent problems
Assessed by problem # 21
Number of correct answers: 21
% of correct answers: 84%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 22 Percents in decimal form and vice versa
Assessed by problem # 22
Number of correct answers: 18
% of correct answers: 72%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 23 Solve simple interest problems
Assessed by problem # 23
Number of correct answers: 17
% of correct answers: 68%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 24 Solve compount inerest problems
Assessed by problem # 24
Number of correct answers: 20
% of correct answers: 80%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 25 Use compount interest formula to solve finance problems
Assessed by problem # 25
Number of correct answers: 20
% of correct answers: 80%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Math 090 Item analysis chart FA 2013

Table I

Problems	Frequency
1	21
2	18
3	10
4	9
5	23
6	21
7	13
8	20
9	18
10	9
11	19
12	19
13	20
14	17
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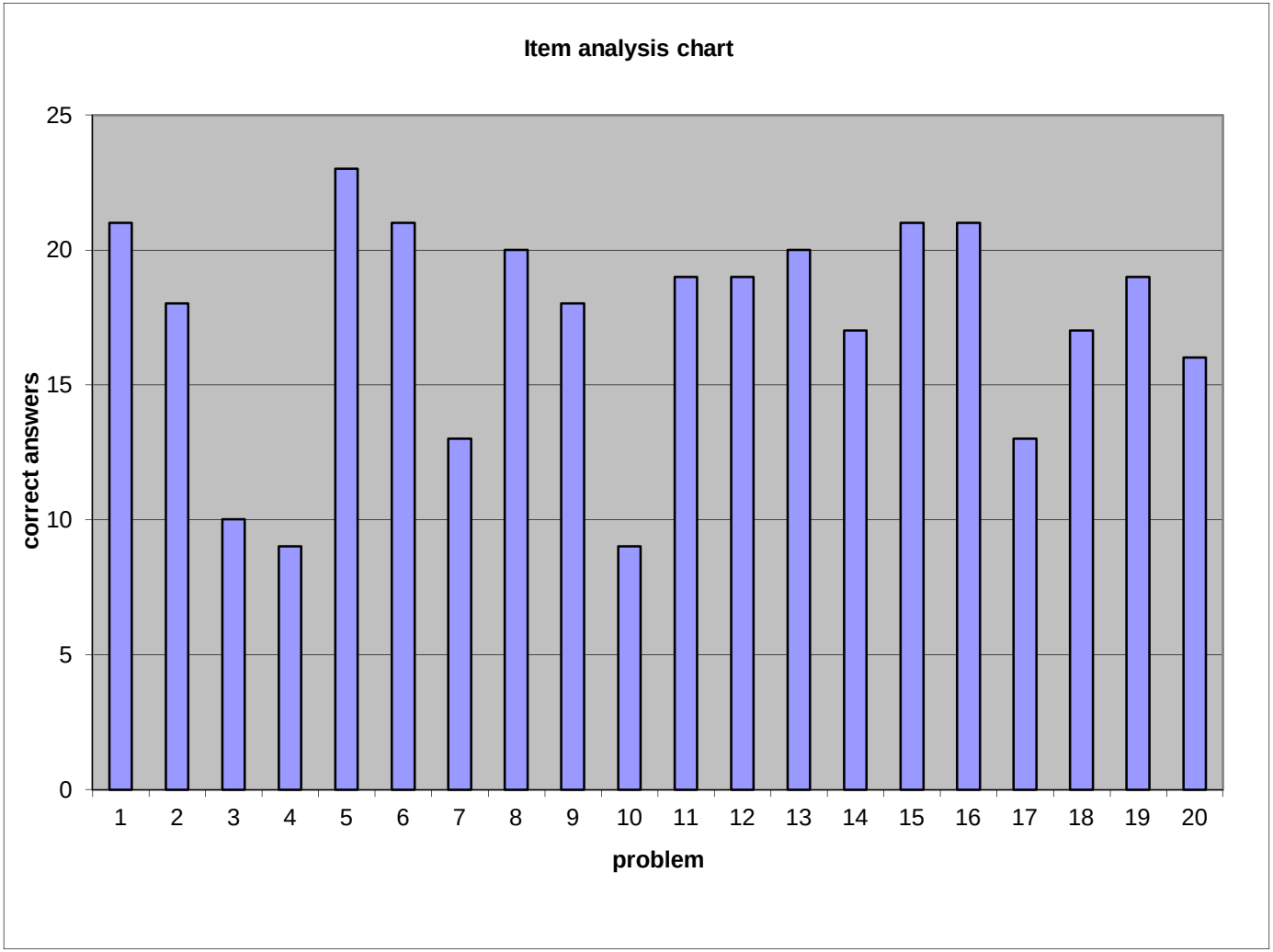
21	21
22	18
23	17
24	20
25	21

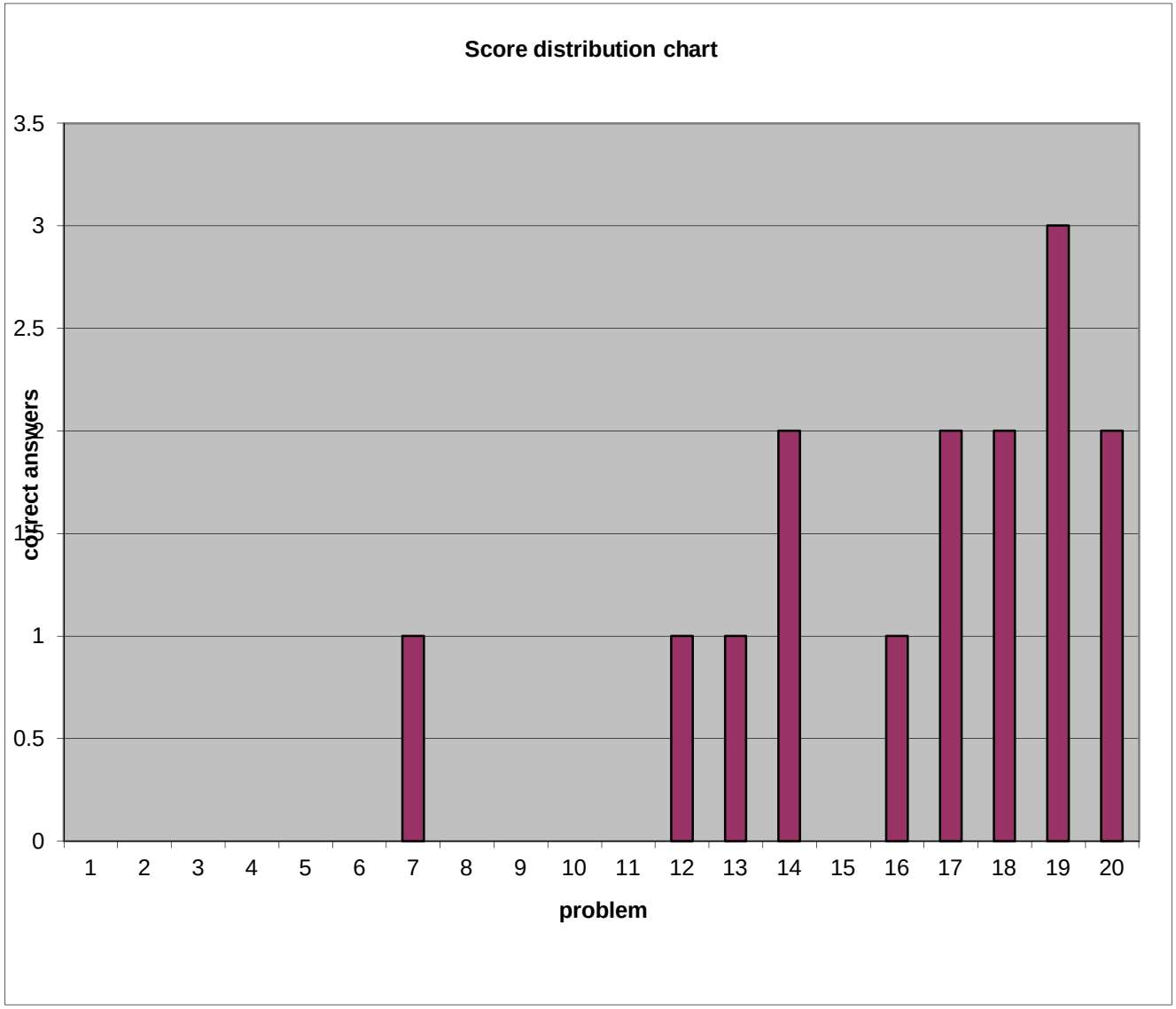


The above table indicates the number of correct answers for each problem of the assessment instrument.

FA 2013 Math 090 Score Distribution chart

Table II

Problem	Score
1	0
2	0
3	0
4	0
5	0
6	0
7	1
8	0
9	0
10	0
11	0
12	1
13	1
14	2
15	0
16	1
17	2
18	2
19	3
20	2
21	5
22	2
23	3
24	0
25	0
Totals	25

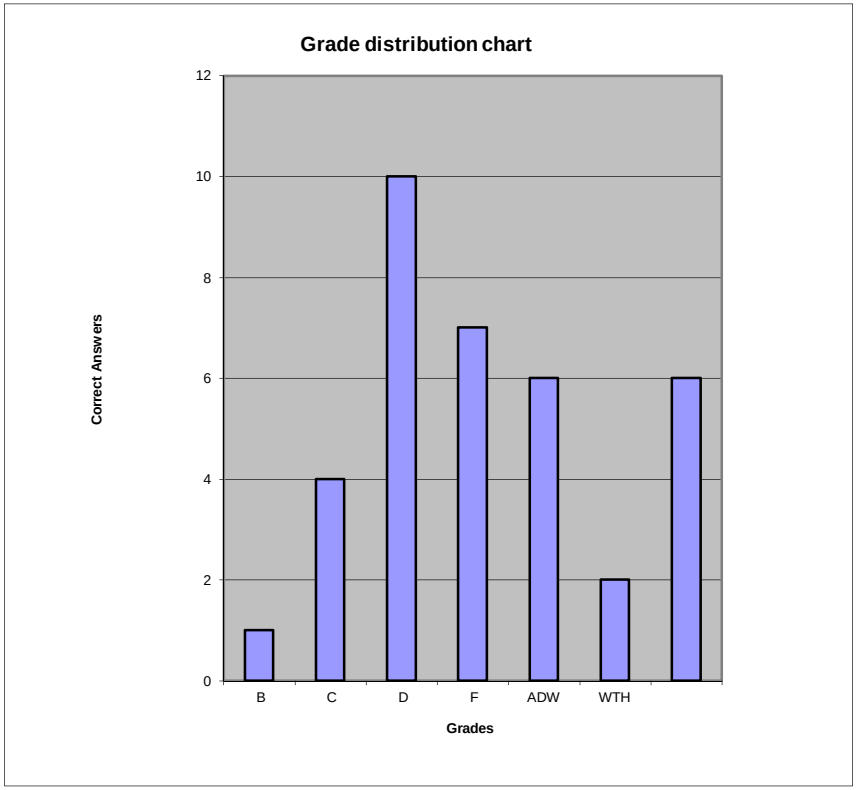


FA 2013 Math 090 Grade Distribution chart

Table III

Grade	Frequency
A	1
B	4
C	10
D	7
F	6
ADW	2
WTH	6
Totals	36

Section	A	B	C	D	F	ADW	WTH	Totals
M 090 AC								
M 090 FH	1	4	10	7	6	2	6	36
TOTALS	1	4	10	7	6	2	6	36



SP 2014 2013 Math 090 Item Analysis

Section	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	#14	#15	#16	# 17	# 18	# 19	20	21	22	23	24	25	TOTAL
M 090 AC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
M 090 FH	21	18	10	9	23	21	13	20	18	9	19	19	20	17	21	21	13	17	19	16	21	18	17	20	21	23
TOTALS	21	18	10	9	23	21	13	20	18	9	19	19	20	17	21	21	13	17	19	16	21	18	17	20	21	23

FA 2013 Math 090 Score Distribution

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 989AC																										
M 090 FH	0	0	0	0	0	0	1	0	0	0	0	1	1	2	0	1	2	2	3	2	5	2	3	0-	0	25
TOTALS	0	0	0	0	0	0	1	0	0	0	0	1	1	2	0	1	2	2	3	2	5	2	3	0	0	25

DEPARTMENTAL ASSESSMENT REPORT

Department: Mathematics
Academic Year: **2014** Semester: **Fall**
Course Assessed: **Math 099** **Fundamentals of Intermediate Algebra and Geometry**
No of Students Assessed: 378
Type of Assessment **A 25-problem final exam.**

Course Coordinator: **Pat Miceli**

ANALYSIS OF OVERALL RESULTS

1. Expected competency level:	**40%**
2. How many students met the competency level?	358
3. What % of students met the competency level?	95%
4. No. of students enrolled in the course:	594
5. No. of students completing the final exam:	378
6. % of students completing the final exam:	64%
7. No. of students receiving a grade C or better:	299
8. % of students receiving a grade C or better:	79%
9. % of enrolled students passing with C or better:	50%

10. What objectives were not met by the majority of the students:
See the objectives below.
11. Was the assessment instrument adequate:
Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured? Why not? Is it possible to make the instrument such that to measure all objectives?
All objectives were measured.
13. Comments - Recommendations:

Objective # 1 Simplifying expressions containing rational exponents
Assessed by problem #1.
Number of correct answers: 261
% of correct answers: 69%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 2 Perform operations on and simplify radicals
Assessed by problem # 2.
Number of correct answers: 183
% of correct answers: 48%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 3 Perform operations on and simplify rational expressions
Assessed by problem # 3.
Number of correct answers: 262
% of correct answers: 69%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 4 A Solve quadratic equations with real solutions
Assessed by problem # 4.
Number of correct answers: 236
% of correct answers: 62%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 4 B Solve quadratic equations with real solutions
Assessed by problem # 5 197
Number of correct answers: 52%
% of correct answers:
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 5 Solve rational equations
Assessed by problem # 6
Number of correct answers: 274
% of correct answers: 72%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 6 Solve absolute value equations
Assessed by problem # 7
Number of correct answers: 257
% of correct answers: 68%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 7 Solve radical equations
Assessed by problem # 8
Number of correct answers: 319
% of correct answers: 84%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 8 Solve compound linear inequalities
Assessed by problem # 9
Number of correct answers: 112
% of correct answers: 30%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 9 Solve systems of linear inequalities in two variables
Assessed by problem # 10
Number of correct answers: 153
% of correct answers: 40%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 10 Solve systems of linear equations in two and three variables
Assessed by problem # 11
Number of correct answers: 276
% of correct answers: 73%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 11 Formulate and apply an equation, inequality or system of linear equations
Assessed by problem # 12.
Number of correct answers: 300
% of correct answers: 79%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 12 Solve and evaluate literal equations, including nonlinear equations
Assessed by problem # 13.
Number of correct answers: 237
% of correct answers: 63%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 13. Formulate and apply nonlinear literal equations
Assessed by problem # 14.
Number of correct answers: 320
% of correct answers: 85%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 14 A Graph linear and quadratic equations
Assessed by problem # 15.
Number of correct answers: 112
% of correct answers: 30%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 14 B Graph linear and quadratic equations
Assessed by problem # 16
Number of correct answers: 325
% of correct answers: 86%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 15 Equations of lines, parallel and perpendicular line
Assessed by problem # 17.
Number of correct answers: 325
% of correct answers: 86%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 16 Given relationships represented in multiple forms are functions
Assessed by problem # 18.
Number of correct answers: 177
% of correct answers: 47%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 17 Determine domain and range from the graph of a function
Assessed by problem # 19.
Number of correct answers: 281
% of correct answers: 74%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 18 Formulate and apply the concept of a function to contextual situation
Assessed by problem # 20.
Number of correct answers: 110
% of correct answers: 29%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 19 Interpret slope in a linear model as a rate of change
Assessed by problem # 21.
Number of correct answers: 370
% of correct answers: 98%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 20 A Apply formulas of perimeter, area, and volume to 2 - and 3 dimensions
Assessed by problem # 22.
Number of correct answers: 180
% of correct answers: 48%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 20 B Apply formulas of perimeter, area, and volume to 2 - and 3 dimensions
Assessed by problem # 23.
Number of correct answers: 231
% of correct answers: 61%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

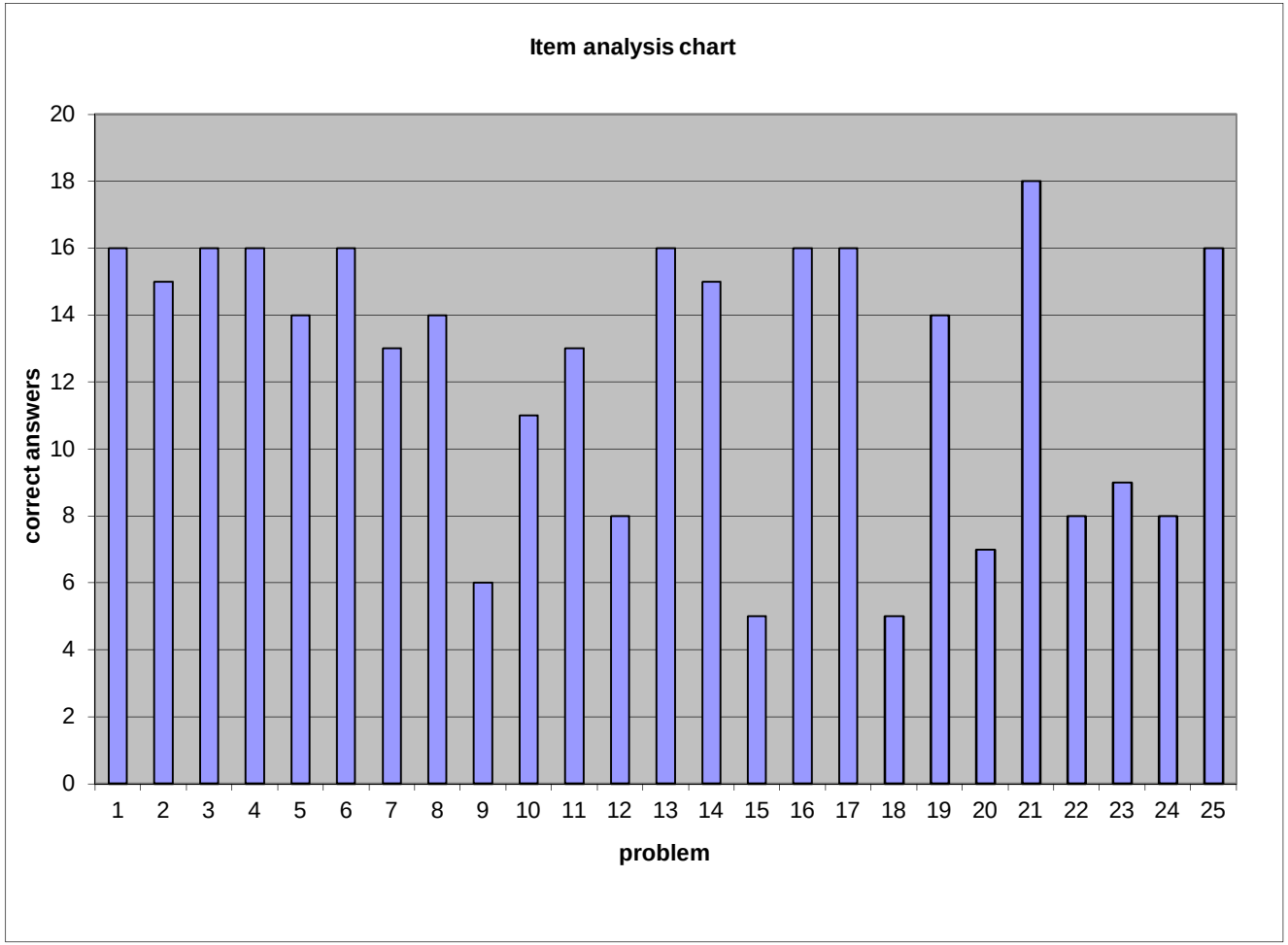
Objective # 21 Apply the Pythagorean Theorem
Assessed by problem # 24
Number of correct answers: 179
% of correct answers: 47%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 22 Apply the concepts of similarity and congruency of triangles
Assessed by problem # 25
Number of correct answers: 327
% of correct answers: 87%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Math 099 Item analysis chart SP 2014

Table I

Problems	Frequency
1	16
2	15
3	16
4	16
5	14
6	16
7	13
8	14
9	6
10	11
11	13
12	8
13	16
14	15
15	5
16	16
17	16
18	5
10	14
20	7
21	18
22	8
23	9
24	8
25	16

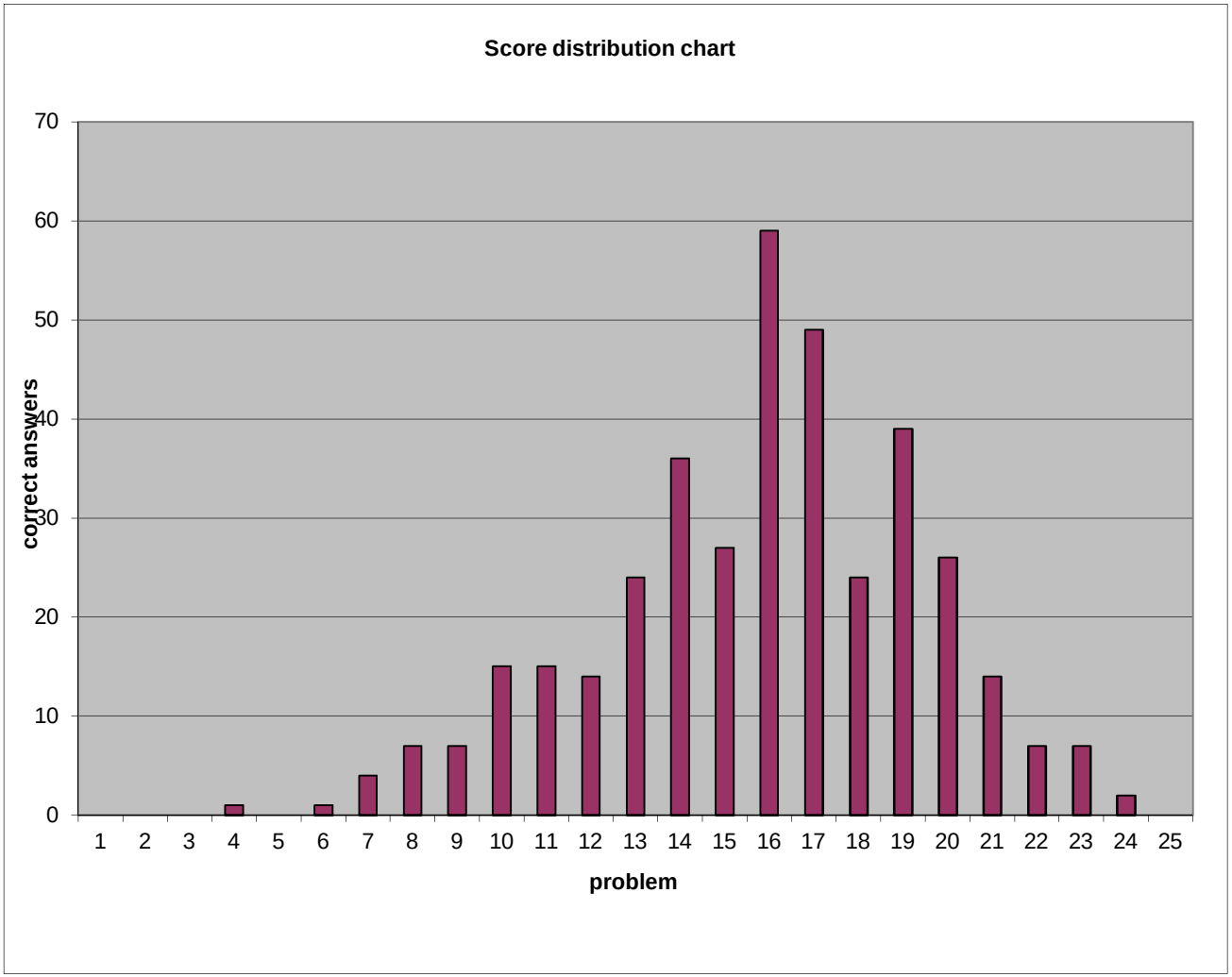


The above table indicates the number of correct answers for each problem of the assessment instrument.

SP 2014 Math 099 Score Distribution chart

Table II

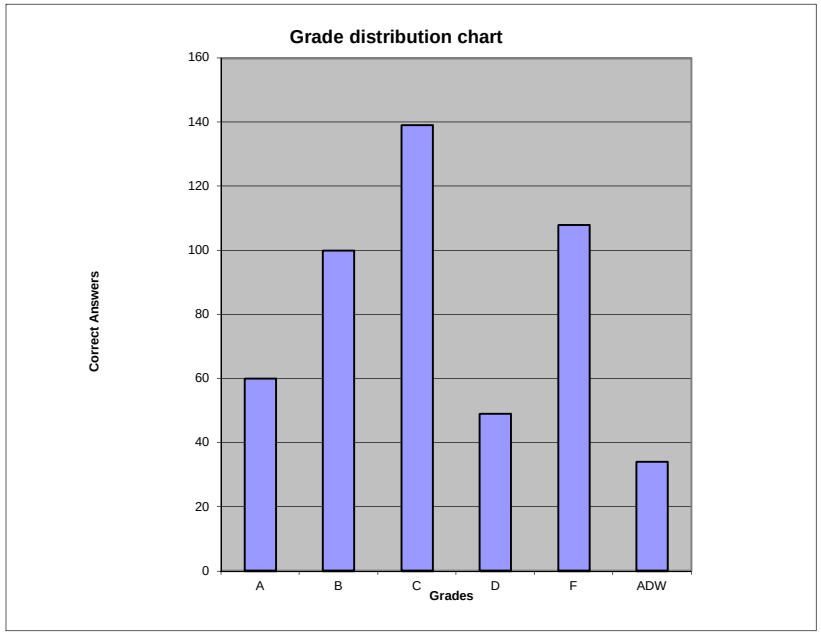
Problem	Score
1	0
2	0
3	0
4	1
5	0
6	1
7	4
8	7
9	7
10	15
11	15
12	14
13	24
14	36
15	27
16	59
17	49
18	24
19	39
20	26
21	14
22	7
23	7
24	2
25	0
Totals	378



SP 2014 Math 099 Grade Distribution chart

Table III

Grade	Frequency
A	60
B	100
C	139
D	49
F	108
ADW	34
WTH	104
Totals	594



Section	A	B	C	D	F	ADW	WTH	Totals
M 099 AC	6	14	10	1	3	1	2	37
M 099 BD	3	3	6	4	10	4	7	37
M 099 CE								0
M 099 .CBK	2	4	5	2	6	0	7	26
M 099 DBK	0	8	7	5	3	2	1	26
M 099 DF	2	5	5	4	12	4	5	37
M 099 FBK	0	0	0	2	21	3	0	26
M 099 FH	1	4	10	3	12	3	8	41
M 099 GI	4	7	14	2	3	0	12	42
M 099 GI2	4	4	14	7	5	1	2	37
M 099 HJ2	1	6	17	3	6	0	4	37
M 099 HJ3	1	10	14	1	6	1	2	35
M 099 IK	5	7	11	2	6	0	6	37
M 099 IK2	2	4	9	5	6	0	12	38
M 099 MO	16	8	4	1	0	0	6	35
M 099 NP	2	3	2	4	1	13	13	38
M 099 NP2	6	4	4	3	2	1	3	23
M 099 RT	5	9	7	0	6	1	14	42
TOTALS	60	100	139	49	108	34	104	594

SP 2014 Math 099 - Item Analysis

Section	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	#14	#15	#16	# 17	# 18	# 19	# 20	# 21	# 22	# 23	# 24	#25	Class Size
M 099 AC	17	6	17	11	18	18	20	24	4	8	23	26	24	22	7	24	24	12	22	8	30	11	20	13	25	30
M 099 BD	12	4	14	19	11	16	8	16	10	11	16	15	11	18	9	19	18	10	15	11	20	10	12	8	20	20
M 099 CE																										
M 099 .CBK	12	7	8	12	2	9	9	12	4	3	8	12	7	12	1	11	12	6	12	3	12	10	10	4	11	12
M 099 DBK	19	6	14	14	9	7	15	15	2	9	15	11	9	21	6	19	20	5	15	5	20	4	10	8	16	21
M 099 DF	18	15	21	4	15	20	16	19	12	11	16	16	16	18	11	11	19	14	17	8	21	15	15	16	18	22
M 099 FBK	7	5	7	7	6	5	14	10	2	5	6	8	6	11	2	10	9	2	11	2	12	6	12	8	3	13
M 099 FH	14	6	16	16	8	17	20	22	10	10	20	23	14	22	9	24	21	8	11	9	25	15	17	12	23	25
M 099 GI	23	22	22	20	20	20	22	24	10	9	26	23	20	23	6	27	24	12	19	3	28	10	10	12	26	28
M 099 GI2	22	11	13	15	13	23	20	29	5	12	24	22	19	29	8	26	25	12	28	8	31	20	18	11	29	31
M 099 HJ2	19	18	19	13	16	20	18	21	6	7	18	21	13	15	7	21	25	16	17	9	26	13	13	9	21	27
M 099 HJ3	13	6	16	18	13	18	16	23	7	13	12	25	11	24	2	25	23	10	16	1	27	9	16	10	26	27
M 099 IK	23	14	21	18	13	23	9	21	7	3	12	21	19	22	8	21	20	18	21	5	25	10	15	16	22	25
M 099 IK2	13	10	14	15	8	16	12	17	4	8	17	16	9	17	4	19	18	10	15	7	19	12	14	5	19	20
M 099 MO	15	17	22	20	17	26	23	27	17	19	26	27	23	26	16	26	27	21	26	20	29	16	23	21	27	29
M 099 NP	6	7	9	9	6	8	8	11	4	12	11	11	6	10	6	12	8	8	11	3	12	3	8	11	10	12
M 099 NP2	12	14	13	9	8	12	14	14	2	2	13	15	14	15	5	14	16	8	11	1	15	8	9	7	15	16
M 099 RT	16	15	16	16	14	16	13	14	6	11	13	8	16	15	5	16	16	5	14	7	18	8	9	8	16	18
TOTALS	261	183	262	236	197	274	257	319	112	153	276	300	237	320	112	325	325	177	281	110	370	180	231	179	327	376

SP 2014 Math 099 - Score Distribution

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 099 AC	0	0	0	0	0	0	0	0	1	4	1	0	2	4	5	3	6	3	2	0	0	0	0	0	0	31
M 099 BD	0	0	0	0	0	1	0	0	0	0	1	1	0	2	1	2	4	1	3	1	1	0	2	0	0	20
M 099 CE																										
M 099 CBK	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	4	1	1	0	2	2	0	0	0	0	12
M 099 DBK	0	0	0	0	0	0	1	1	0	1	2	1	3	1	3	5	3	0	0	0	0	0	0	0	0	21
M 099 DF	0	0	0	1	0	0	0	0	0	1	1	1	1	3	0	5	0	3	0	5	1	0	0	0	0	22
M 099 FBK	0	0	0	0	0	0	1	1	0	2	0	1	2	0	0	4	1	0	0	0	1	0	0	0	0	13
M 099 FH	0	0	0	0	0	0	1	0	1	0	1	1	2	1	1	5	4	1	2	1	1	2	1	0	0	25
M 099 GI	0	0	0	0	0	0	0	0	0	1	0	1	0	3	1	4	7	3	3	3	0	0	0	0	0	26
M 099 GI2	0	0	0	0	0	0	0	0	0	1	1	3	6	6	3	3	3	0	1	2	0	1	1	0	0	31
M 099 HJ2	0	0	0	0	0	0	1	2	1	1	1	0	2	4	5	2	3	1	1	0	1	1	0	1	0	27
M 099 HJ3	0	0	0	0	0	0	0	2	0	2	3	1	2	2	2	5	3	2	3	0	0	0	0	0	0	27
M 099 IK	0	0	0	0	0	0	0	0	0	1	1	1	1	4	3	2	3	1	4	2	0	1	0	1	0	25
M 099 IK2	0	0	0	0	0	0	0	0	2	0	0	0	1	3	0	4	4	1	3	2	0	0	0	0	0	20
M 099 MO	0	0	0	0	0	0	0	0	1	0	2	1	1	0	2	3	2	4	7	5	1	0	0	0	0	29
M 099 NP	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	2	0	0	3	1	2	0	1	0		12
M 099 NP2	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	0	4	0	4	1	2	1	0	0	0	16
M 099 RT	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	6	1	3	3	1	2	1	2	0	0	21
TOTALS	0	0	0	1	0	1	4	7	7	15	15	14	24	36	27	59	49	24	39	26	14	7	7	2	0	378

DEPARTMENTAL ASSESSMENT REPORT

Department: Mathematics
Academic Year: **2014** Semester: **Fall**
Course Assessed: **Math 118** **General Ed. Math**
No of Students Assessed: 333
Type of Assessmer **A 25-problem final exam.**

Course Coordinator: **Qiana Lewis**

ANALYSIS OF OVERALL RESULTS

1. Expected competency level:	**40%**
2. How many students met the competency level?	306
3. What % of students met the competency level?	92%
4. No. of students enrolled in the course:	29
5. No. of students completing the final exam:	333
6. % of students completing the final exam:	100%
7. No. of students receiving a grade C or better:	109
8. % of students receiving a grade C or better:	33%

10. What objectives were not met by the majority of the students:
    All objectives were met by the majority of the students.
11. Was the assessment instrument adequate:
    Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured? Why not? Is it possible to make the instrument such that to measure all objectives?
    All objectives were measured.
13. Comments - Recommendations:

Objective # 1 Translate symbolic statements into words and vice-versa
Assessed by problem #1.
Number of correct answers: 310
% of correct answers: 93%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 2 Determine the truth-value for compound statements
Assessed by problem # 2.
Number of correct answers: 254
% of correct answers: 76%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 3 Determine the negation statement
Assessed by problem # 3.
Number of correct answers: 140
% of correct answers: 42%
Did the majority of the students meet this objective: NO
Comments - Recommendations:

Objective # 4 Determine and relate the converse, inverse, and contra positive….
Assessed by problem # 4.
Number of correct answers: 214
% of correct answers: 64%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 5 Construct truth tables for compound statements
Assessed by problem # 5.
Number of correct answers: 231
% of correct answers: 69%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 6 Determine the validity of arguments using Euler diagrams and truth tables
Assessed by problem # 6.
Number of correct answers: 127
% of correct answers: 38%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 7 Develop and apply common counting method strategies.
Assessed by problem # 7.
Number of correct answers: 117
% of correct answers: 35%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 8 Apply the fundamental counting principle to application problems
Assessed by problem # 8.
Number of correct answers: 296
% of correct answers: 89%
Did the majority of the students meet this objective: Yes
Comments - Recommendations:

Objective # 9 Use the factorial formula to determine the number of ways to arrange objects
Assessed by problem # 9.
Number of correct answers: 274
% of correct answers: 82%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 10 Apply permutations to application problems
Assessed by problem # 10.
Number of correct answers: 210
% of correct answers: 63%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 11 Apply combinations to application problems
Assessed by problem # 11.
Number of correct answers: 257
% of correct answers: 77%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 12 Use the complement and/or additive principle for counting …
Assessed by problem # 12.
Number of correct answers: 170
% of correct answers: 51%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 13. Determine the empirical probability and theoretical probability..
Assessed by problem # 13.
Number of correct answers: 290
% of correct answers: 87%
Did the majority of the students meet this objective: Yes
Comments - Recommendations:

Objective # 14 Determine the odds in favor and the odds against events
Assessed by problem # 14.
Number of correct answers: 226
% of correct answers: 68%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 15 Apply the addition rule of probability to real-life problems
Assessed by problem # 15.
Number of correct answers: 170
% of correct answers: 51%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 16 Apply the multiplication rule of probability to real-life problems
Assessed by problem # 16.
Number of correct answers: 196
% of correct answers: 59%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 17 Apply the binomial probability formula to application problems
Assessed by problem # 17.
Number of correct answers: 110
% of correct answers: 33%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 18 Determine expected values of random variables of real life
Assessed by problem # 18.
Number of correct answers: 176
% of correct answers: 53%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:
*

Objective # 19 Gather, interpret, and present data in frequency distribution tables, histograms, and graphs
Assessed by problem # 19.
Number of correct answers: 268
% of correct answers: 80%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 20 Find and interpret measures of central tendency.
Assessed by problem # 20.
Number of correct answers: 230
% of correct answers: 69%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 21 Find and interpret various measures of dispersion.
Assessed by problem # 21.
Number of correct answers: 178
% of correct answers: 53%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 22 Use z-scores to compare data from different distributions.
Assessed by problem # 22
Number of correct answers: 203
% of correct answers: 61%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 23 Determine percentile and quartile for data, construct plots from results.
Assessed by problem # 23.
Number of correct answers: 201
% of correct answers: 60%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

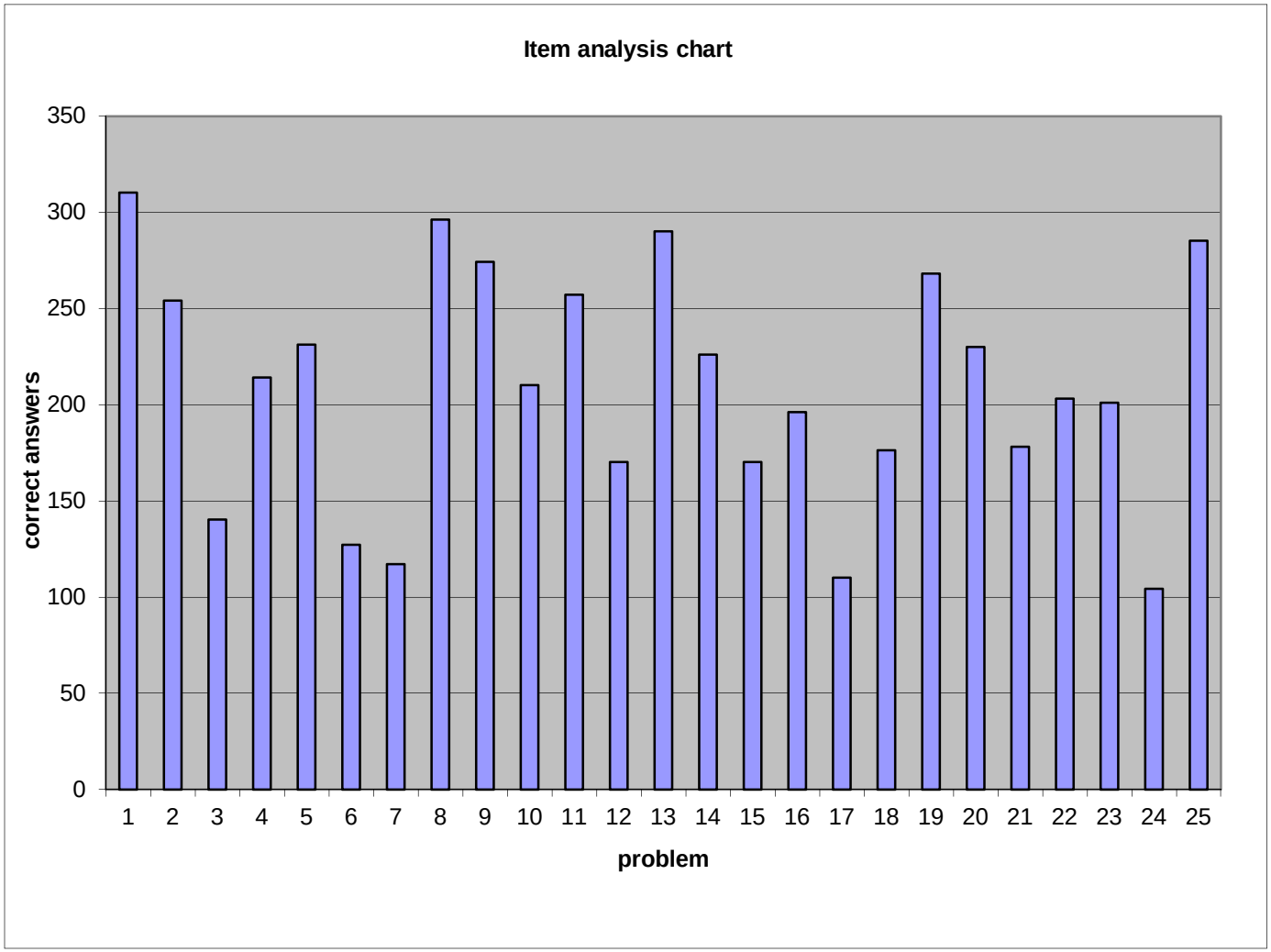
Objective # 24 Apply principles of normal distribution to real-life normally distributed.
Assessed by problem # 24.
Number of correct answers: 104
% of correct answers: 31%
Did the majority of the students meet this objective: **No**
Comments - Recommendations:

Objective # 25 Use regression analysis to formulate relationships between variables.
Assessed by problem # 25.
Number of correct answers: 285
% of correct answers: 86%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Math 118 Item analysis chart SP 2014

Table I

Problems	Frequency
1	310
2	254
3	140
4	214
5	231
6	127
7	117
8	296
9	274
10	210
11	257
12	170
13	290
14	226
15	170
16	196
17	110
18	176
10	268
20	230
21	178
22	203
23	201
24	104
25	285

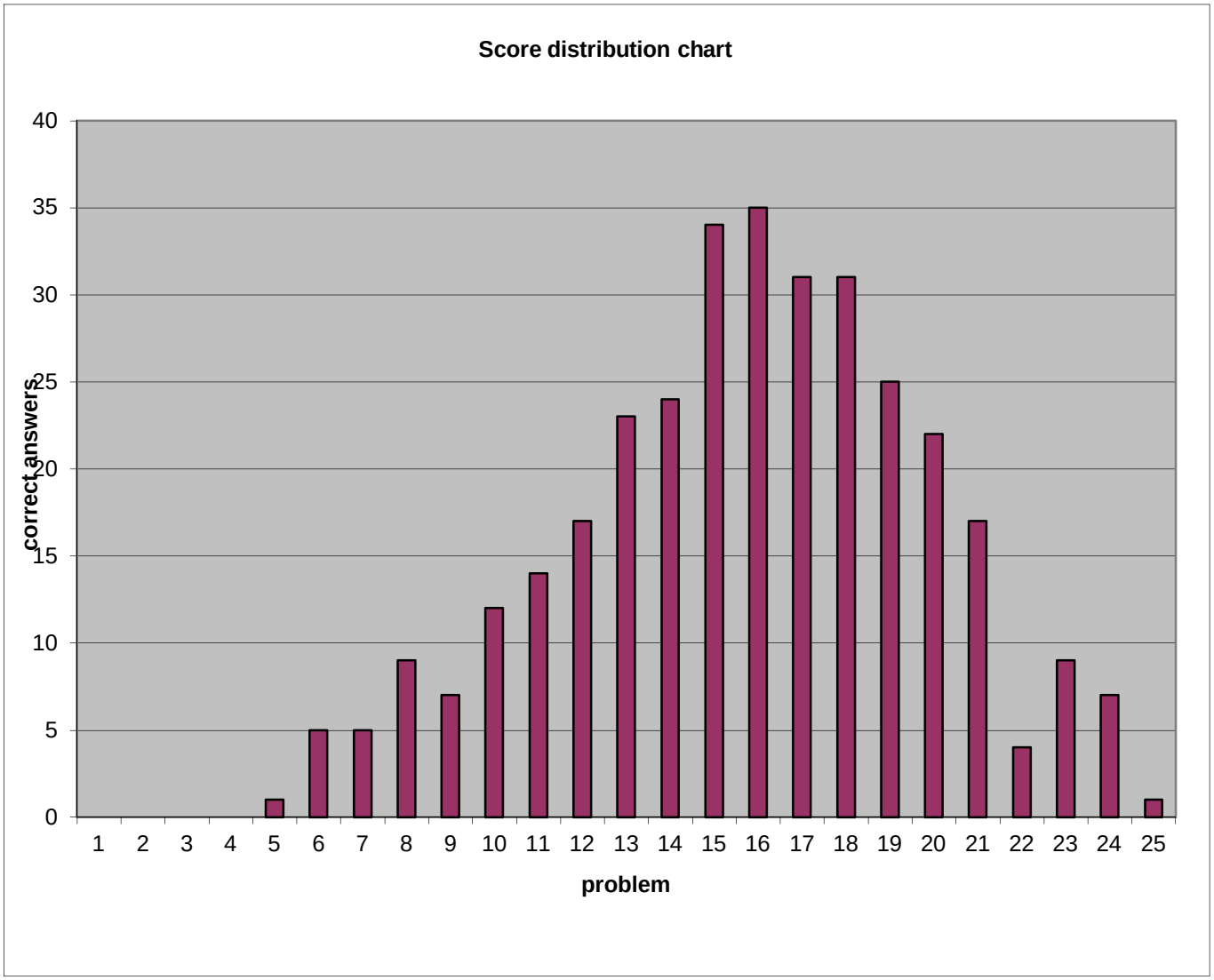


The above table indicates the number of correct answers for each problem of the assessment instrument.

SP 2014 Math 118 Score Distribution chart

Table II

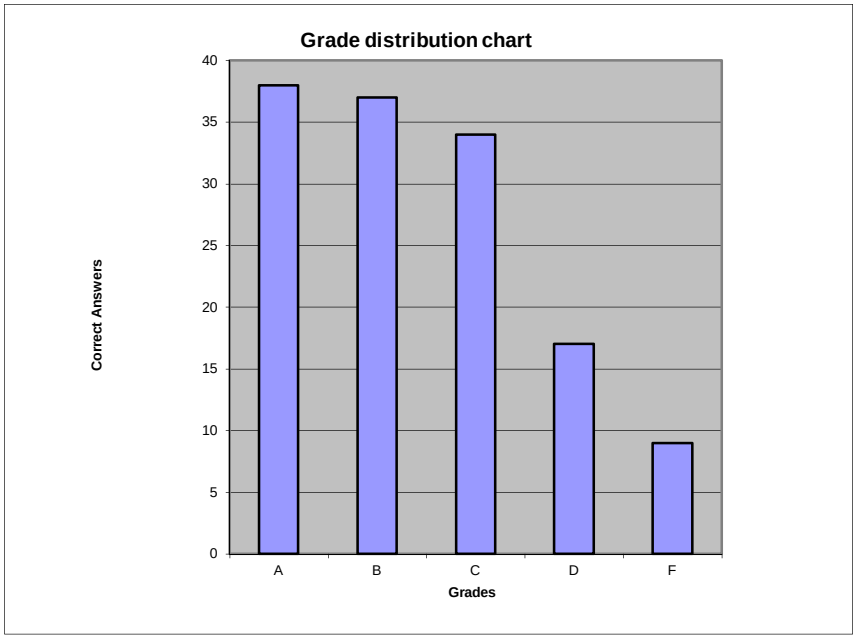
Problem	Score
1	0
2	0
3	0
4	0
5	1
6	5
7	5
8	9
9	7
10	12
11	14
12	17
13	23
14	24
15	34
16	35
17	31
18	31
19	25
20	22
21	17
22	4
23	9
24	7
25	1
Totals	333



SP 2014 Math 118 Grade Distribution chart

Table III

Grade	Frequency
A	38
B	37
C	34
D	17
F	9
ADW	1
WTH	29
TOTALS	165



Section	A	B	C	D	F	ADW	WTH	Totals
M 118 AC	5	13	6	3	3	1	4	35
M 118 AC2	3	15	5	7	2	2	2	36
M 118 BD	2	11	6	3	7	2	3	34
M 118 BFYR	1	1	6	2	11	0	4	25
M 118 CE	3	9	11	0	1	2	1	27
M 118 IBK	1	2	2	1	4	1	0	11
M 118 EG	3	7	6	5	2	0	14	37
M 118 EG2	9	12	7	4	2	1	1	36
M 118 FHYR	6	6	7	1	6	0	1	27
M 118 IK								
M 118 MO	8	4	7	3	5	0	8	35
M 118 NP	2	11	4	4	0	0	6	27
M 118 NP2	6	4	4	3	2	1	3	23
M 118 HUOQ	2	5	7	0	0	0	3	17
M 118 QS	13	3	4	7	0	0	7	34
M118 SAYR	7	10	8	0	2	0	2	29
TOTALS	38	37	34	17	9	1	29	165

SP 2014 Math 118 - Item Analysis

Section	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	#14	#15	#16	# 17	# 18	# 19	# 20	# 21	# 22	# 23	# 24	#25	Class Size
M 118 AC	25	10	8	16	22	8	7	23	24	10	23	16	26	14	19	20	9	21	19	22	18	15	21	18	24	28
M 118 AC2	28	28	5	22	24	14	9	26	27	27	24	14	29	20	18	14	7	9	24	27	24	23	23	9	29	31
M 118 BD	19	15	9	15	13	5	6	20	17	13	18	10	17	10	8	16	9	14	16	15	12	7	15	11	14	23
M 118 BFYR	11	10	2	6	6	5	3	11	8	7	6	3	12	7	2	2	1	5	8	9	4	3	1	0	11	12
M 118 CE	23	7	14	15	16	8	8	18	22	12	21	18	19	10	7	14	8	17	23	17	10	11	8	6	18	25
M 118 IBK	9	7	5	5	6	3	2	9	8	3	7	5	9	7	3	6	4	2	7	6	7	7	9	5	8	9
M 118 EG	22	18	13	18	20	5	7	22	21	19	21	1	20	15	15	19	17	11	21	2	18	19	18	10	19	22
M 118 EG2	29	27	26	22	19	26	21	29	29	19	28	21	29	27	16	17	16	13	16	20	27	20	25	8	27	29
M 118 FHYR	23	20	2	17	17	6	2	19	17	12	17	15	18	13	11	11	5	12	16	15	7	13	8	5	20	23
M 118 IK	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
M 118 MO	34	33	6	13	26	16	10	32	30	21	25	15	31	22	12	12	4	17	32	25	15	20	18	8	33	37
M 118 NP	9	14	9	10	11	9	13	10	15	14	9	9	9	19	9	9	9	10	21	10	9	10	9	9	9	21
M 118 NP2	17	13	14	10	10	7	7	18	13	12	13	12	14	12	7	12	9	12	16	13	0	13	15	1	18	18
M 118 HUOQ	14	10	10	8	10	5	4	13	9	12	10	3	12	9	6	12	3	7	11	9	0	9	9	4	14	14
M 118 QS	27	22	11	22	19	7	14	27	17	17	18	15	25	25	20	19	3	17	24	25	15	20	12	3	25	27
M118 SAYR	20	20	6	15	12	3	4	19	17	12	17	13	20	16	17	13	6	9	14	15	12	13	10	7	16	20
TOTALS	310	254	140	214	231	127	117	296	274	210	257	170	290	226	170	196	110	176	268	230	178	203	201	104	285	339

SP 2014 Math 118 - Score Distribution chart

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 118 AC	0	0	0	0	0	0	1	1	1	1	2	1	1	1	2	5	2	2	2	4	1	0	0	1	0	28
M 118 AC2	0	0	0	0	0	0	0	0	0	0	1	0	1	4	5	5	6	5	3	1	0	0	0	0	0	31
M 118 BD	0	0	0	0	0	1	2	0	0	0	1	2	2	2	1	1	2	4	3	2	0	0	0	0	0	23
M 118 BFYR	0	0	0	0	0	0	0	1	1	2	3	0	2	0	1	0	3	0	0	0	0	0	0	0	0	13
M 118 CE	0	0	0	0	0	0	2	0	1	1	1	3	4	3	3	2	2	1	1	1	0	0	1	1	0	27
M 118 IBK	0	0	0	0	0	0	0	0	1	0	0	1	1	1	2	1	0	0	0	1	0	0	1	0	0	9
M 118 EG	0	0	0	0	0	0	0	0	1	0	0	0	0	2	2	2	2	3	3	2	4	0	1	0	0	22
M 118 EG2	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	1	3	6	1	3	4	1	3	5	1	32
M 118 FHYR	0	0	0	0	1	1	0	1	0	3	2	1	1	3	0	4	1	2	1	0	0	1	1	0	0	23
M 118 IK	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
M 118 MO	0	0	0	0	0	1	0	1	1	0	2	2	2	3	4	3	1	1	0	0	1	1	1	0	0	24
M 118 NP	0	0	0	0	0	2	0	1	0	0	1	1	4	0	6	2	2	0	0	1	0	1	0	0	0	21
M 118 NP2	0	0	0	0	0	0	0	2	1	0	0	1	1	0	0	4	1	2	2	2	2	0	0	0	0	18
M 118 HUOQ	0	0	0	0	0	0	0	0	0	2	0	3	0	1	0	2	2	1	2	0	1	0	0	0	0	14
M 118 QS	0	0	0	0	0	0	0	0	0	2	0	2	2	0	6	2	2	1	4	3	3	0	0	0	0	27
M118 SAYR	0	0	0	0	0	0	0	2	0	1	0	0	2	2	1	1	2	3	3	2	1	0	1	0	0	21
TOTALS	0	0	0	0	1	5	5	9	7	12	14	17	23	24	34	35	31	31	25	22	17	4	9	7	1	333

DEPARTMENTAL ASSESSMENT REPORT

Department: Mathematics
Academic Year: **2014** Semester: **Fall**
Course Assessed: **Math 121** **Math for Elementary Teachers I**
No of Students Assessed: 20
Type of Assessmer **A 20-problem final exam.**

Course Coordinator: **Panagos Papageorgiu**

ANALYSIS OF OVERALL RESULTS

1. Expected competency level: **40%**
2. How many students met the competency level? 20
3. What % of students met the competency level? 100%
4. No. of students enrolled in the course: 20
5. No. of students completing the final exam: 20
6. % of students completing the final exam: 100%
7. No. of students receiving a grade C or better: 20
8. % of students receiving a grade C or better: 100%
9. % of enrolled students passing with C or better: 100%
10. What objectives were not met by the majority of the students:
    Objectives 8,was not met by the majority of students
11. Was the assessment instrument adequate:
    Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured? Why not? Is it possible to make the instrument such that to measure all objectives?
    All objectives were measured.
13. Comments - Recommendations:

Objective # 1 Problem-solving steps and strategies to form conjectures.
Assessed by problem #1.
Number of correct answers: 12
% of correct answers: 60%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 2 Set definitions, notations, relationships, perform operations on sets.
Assessed by problem # 2.
Number of correct answers: 13
% of correct answers: 65%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 3 Define a function, an equation, a function machine, ordered pairs, graph.
Assessed by problem # 3.
Number of correct answers: 14
% of correct answers: 70%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 4 Use logic in math thinking and problem solving.
Assessed by problem # 4.
Number of correct answers: 16
% of correct answers: 80%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 5 Know properties of numeration systems, give basic structure.
Assessed by problem # 5.
Number of correct answers: 12
% of correct answers: 60%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 6 Perform operations on whole numbers.
Assessed by problem # 6.
Number of correct answers: 14
% of correct answers: 70%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 7 Perform operations on integers.
Assessed by problem # 7.
Number of correct answers: 10
% of correct answers: 50%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 8 Use divisibility tests.
Assessed by problem # 8.
Number of correct answers: 12
% of correct answers: 60%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 9 Determine prime composite numbers and number of divisors.
Assessed by problem # 9.
Number of correct answers: 13
% of correct answers: 65%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 10 Determine greatest divisor and least multiple for more natural numbers.
Assessed by problem # 10.
Number of correct answers: 6
% of correct answers: 30%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 11 Solve problems using clocks and modular arithmetic. page 4
Assessed by problem # 11.
Number of correct answers: 10
% of correct answers: 50%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 12 Represent rational numbers and know the properties.
Assessed by problem # 12.
Number of correct answers: 18
% of correct answers: 90%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 13. Know and use the properties of exponents.
Assessed by problem # 13.
Number of correct answers: 12
% of correct answers: 60%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 14 Perform operations on decimals.
Assessed by problem # 14.
Number of correct answers: 17
% of correct answers: 85%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 15 Know properties and perform operations on real numbers.
Assessed by problem # 15.
Number of correct answers: 15
% of correct answers: 75%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 16 Algebraic skills writing and solving equations and inequalities in word problems
Assessed by problem # 16.
Number of correct answers: 16
% of correct answers: 80%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 17 Formulate word problems as mathematical problems.
Assessed by problem # 17.
Number of correct answers: 13
% of correct answers: 65%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 18 Use properties of decimals to solve problems.
Assessed by problem # 18.
Number of correct answers: 13
% of correct answers: 65%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:
*

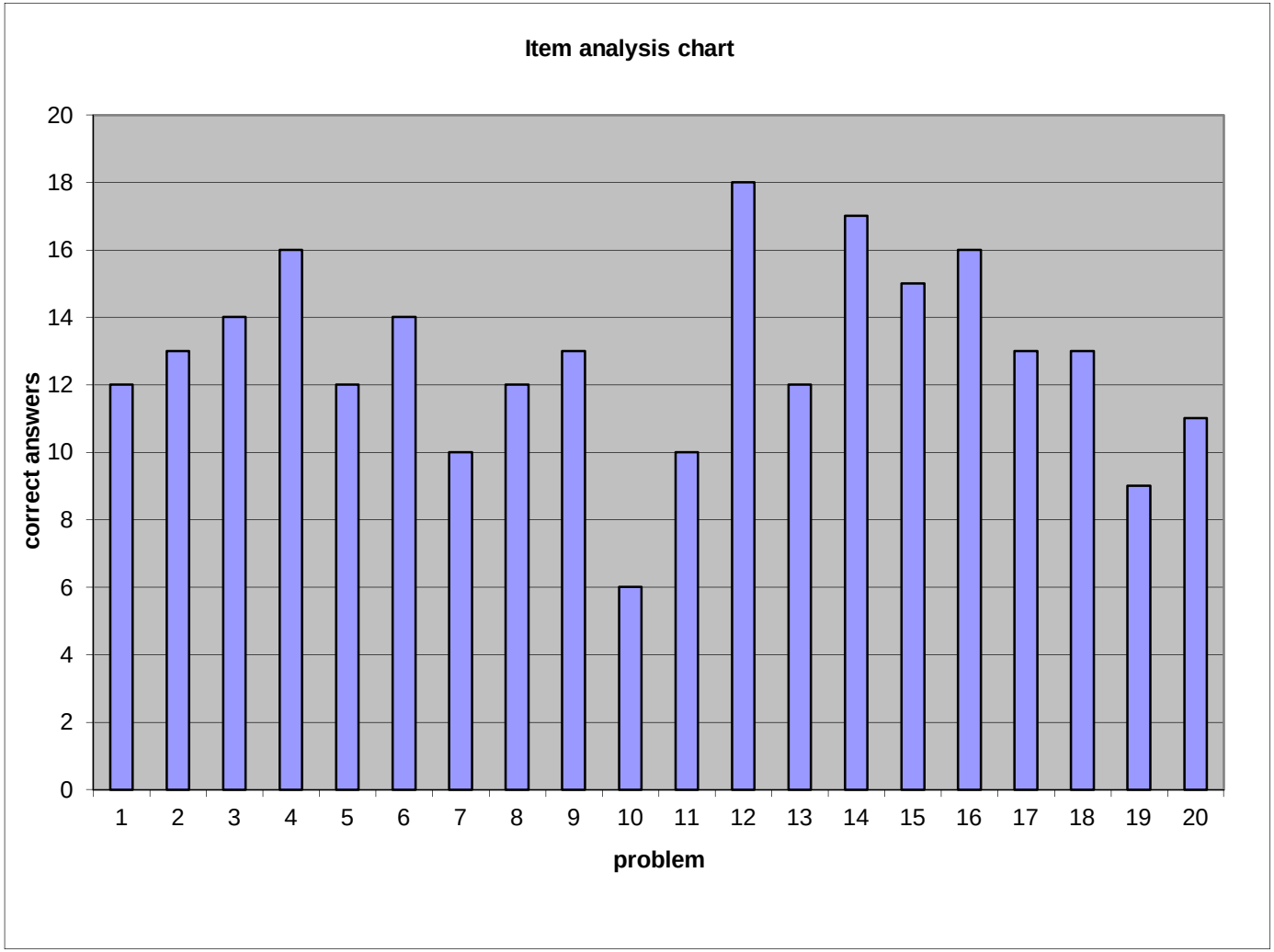
Objective # 19 Use properties of ratios proportional to solve problems.
Assessed by problem # 19.
Number of correct answers: 9
% of correct answers: 45%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 20 Define and determine percents.
Assessed by problem # 20.
Number of correct answers: 11
% of correct answers: 55%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Math 121 Item analysis chart SP 2014

Table I

Problems	Frequency
1	12
2	13
3	14
4	16
5	12
6	14
7	10
8	12
9	13
10	6
11	10
12	18
13	12
14	17
15	15
16	16
17	13
18	13
19	9
20	11



The above table indicates the number of correct answers for each problem of the assessment instrument.

SP 2014 Math 122 Score Distribution chart

Table II

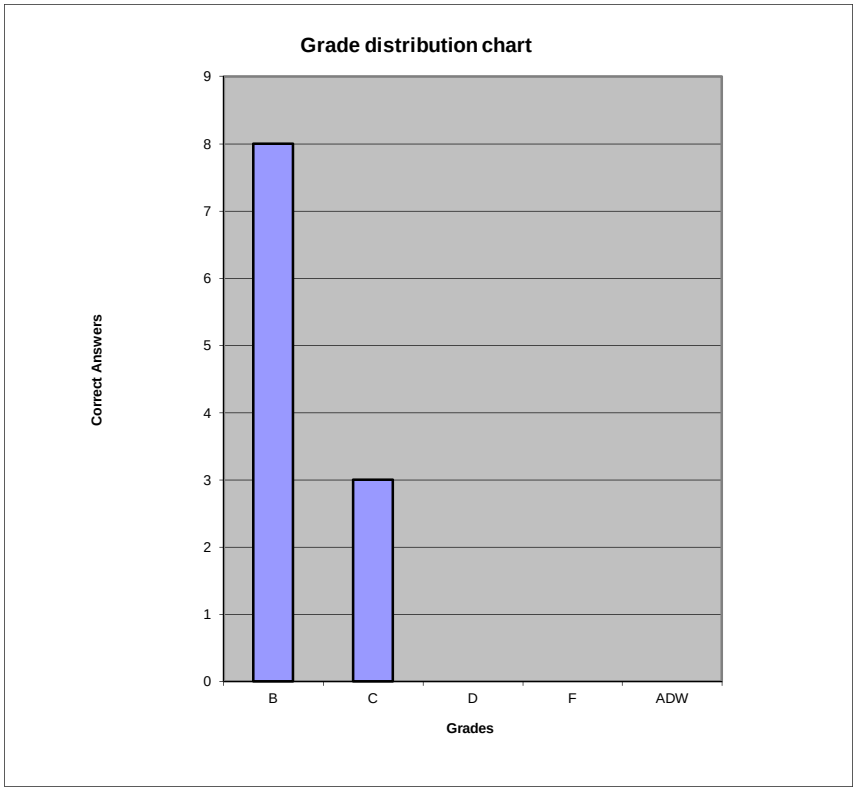
Problem	Score
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	3
11	2
12	0
13	3
14	2
15	1
16	1
17	4
18	3
19	1
20	0
Totals	20

SP 2014 Math 121 Grade Distribution chart

Table III

Grade	Frequency
A	9
B	8
C	3
D	0
F	0
ADW	0
WTH	0
TOTALS	20

Section	A	B	C	D	F	ADW	WTH	Totals
M 121CE	9	8	3	0	0	0	0	20
TOTALS	9	8	3	0	0	0	0	20



SP 2014 Math 121 - Item Analysis

Section	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	#14	#15	#16	# 17	# 18	# 19	20	Class Size
M 121CE	12	13	14	16	12	14	10	12	13	6	10	18	12	17	15	16	13	13	9	11	18
TOTALS	12	13	14	16	12	14	10	12	13	6	10	18	12	17	15	16	13	13	9	11	18

SP 2014 Math 121 - Score Distribution

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	Totals
M 121CE	0	0	0	0	0	0	0	0	0	3	2	0	3	2	1	1	4	3	1	0	0	20
TOTALS	0	0	0	0	0	0	0	0	0	3	2	0	3	2	1	1	4	3	1	0	0	20

Department: Mathematics
Academic Year: **20134** Semester: **Fall**
Course Assessed: **Math 122** **Mathematics for Elementary Teachers II**
No of Students Assessed: 9
Type of Assessment: **A 20-problems Test**

Course Coordinator **Panagos Papageorgiu**

ANALYSIS OF OVERALL RESULTS

1. Expected competency level:	**40%**
2. How many students met the competency level?	8
3. What % of students met the competency level?	89%
4. No. of students enrolled in the course:	9
5. No. of students completing the final exam:	9
6. % of students completing the final exam:	100%
7. No. of students receiving a grade C or better:	9
8. % of students receiving a grade C or better:	100%
9. % of enrolled students passing with C or better:	100%

10. What objectives were not met by the majority of the students:
Objectives 3 and 18 were not met
11. Was the assessment instrument adequate:
Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured? Why not? Is it possible to make the instrument such that to measure all objectives?
All objectives were measured.
13. Comments - Recommendations:

Objective # 1 Determine empirical and theoretical probability of an event.
Assessed by problem #1.
Number of correct answers: 6
% of correct answers: 67%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 2 Determine odds and expected value of an event.
Assessed by problem # 2.
Number of correct answers: 5
% of correct answers: 56%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 3 Methods of counting to determine possible outcomes for situations.
Assessed by problem # 3.
Number of correct answers: 6
% of correct answers: 67%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 4 Interpret and present data in plots, graphs, and tables.
Assessed by problem # 4.
Number of correct answers: 3
% of correct answers: 33%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 5 Find and interpret measures of central tendency
Assessed by problem # 5.
Number of correct answers: 7
% of correct answers: 78%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 6 Find and interpret measures of dispersion.
Assessed by problem # 6.
Number of correct answers: 4
% of correct answers: 44%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 7 Know basic geometric notions for points, lines, and planes.
Assessed by problem # 7.
Number of correct answers: 9
% of correct answers: 100%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 8 Know basic geometric notions for plane figures.
Assessed by problem # 8.
Number of correct answers: 8
% of correct answers: 89%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 9 Determine linear measure and distance in English and Metric system.
Assessed by problem # 9.
Number of correct answers: 9
% of correct answers: 100%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 10 Know and use theorems involving angles.
Assessed by problem # 10.
Number of correct answers: 5
% of correct answers: 56%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 11 Know and use concepts of three-dimensional figures. page 4
Assessed by problem # 11.
Number of correct answers: 9
% of correct answers: 100%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 12 Demonstrate the concepts of similarity and congruence through construction.
Assessed by problem # 12.
Number of correct answers: 8
% of correct answers: 89%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 13. Know and use congruence properties.
Assessed by problem # 13.
Number of correct answers: 7
% of correct answers: 78%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 14 Answer questions involving similar triangles, figures, and coordinates.
Assessed by problem # 14.
Number of correct answers: 9
% of correct answers: 100%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 15 Determine area of polygons and circles in the English and Metric system.
Assessed by problem # 15.
Number of correct answers: 6
% of correct answers: 67%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 16 Know and use the Pythagorean Theorem and distance formula.
Assessed by problem # 16.
Number of correct answers: 5
% of correct answers: 56%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 17 Determine the surface area and volume of three-dimensional figures in the English and metric system.
Assessed by problem # 17.
Number of correct answers: 8
% of correct answers: 89%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 18 Perform and determine motions in the plane that are isometrics and/or size transformations.
Assessed by problem # 18.
Number of correct answers: 1
% of correct answers: 11%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:
*

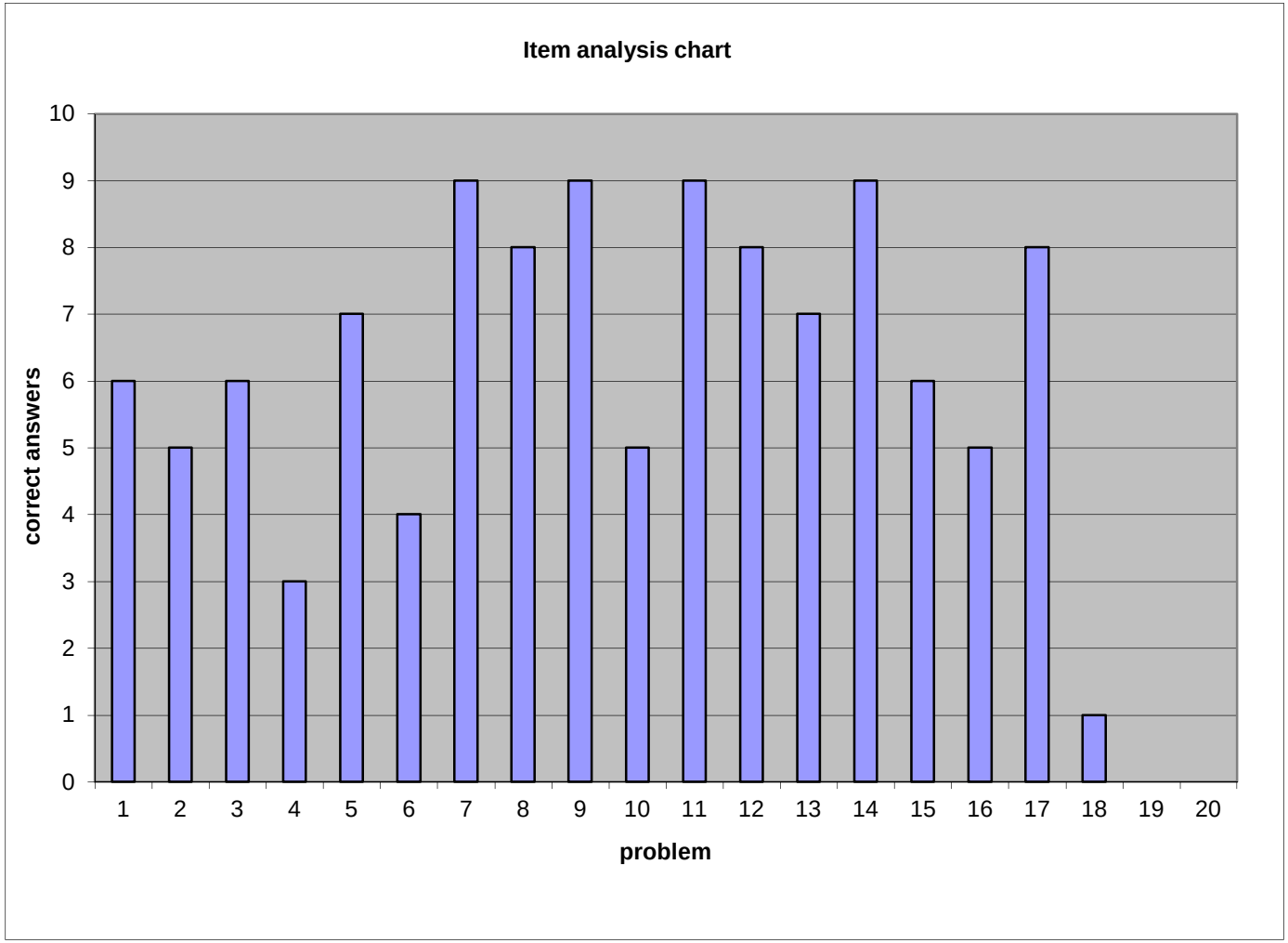
Objective # 19 Perform and determine line, rotational, point, and or plane symmetries.
Assessed by problem # 19.
Number of correct answers: 0
% of correct answers: 0%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 20 Use the Cartesian coordinate system to study geometry using algebra and interpret algebraic phenomena geometrically.
Assessed by problem # 20.
Number of correct answers: 0
% of correct answers: 0%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Math 122 Item analysis chart SP 2014

Table I

Problems	Frequency
1	6
2	5
3	6
4	3
5	7
6	4
7	9
8	8
9	9
10	5
11	9
12	8
13	7
14	9
15	6
16	5
17	8
18	1
10	0
20	0
21	0
22	0
23	0
24	0
25	0

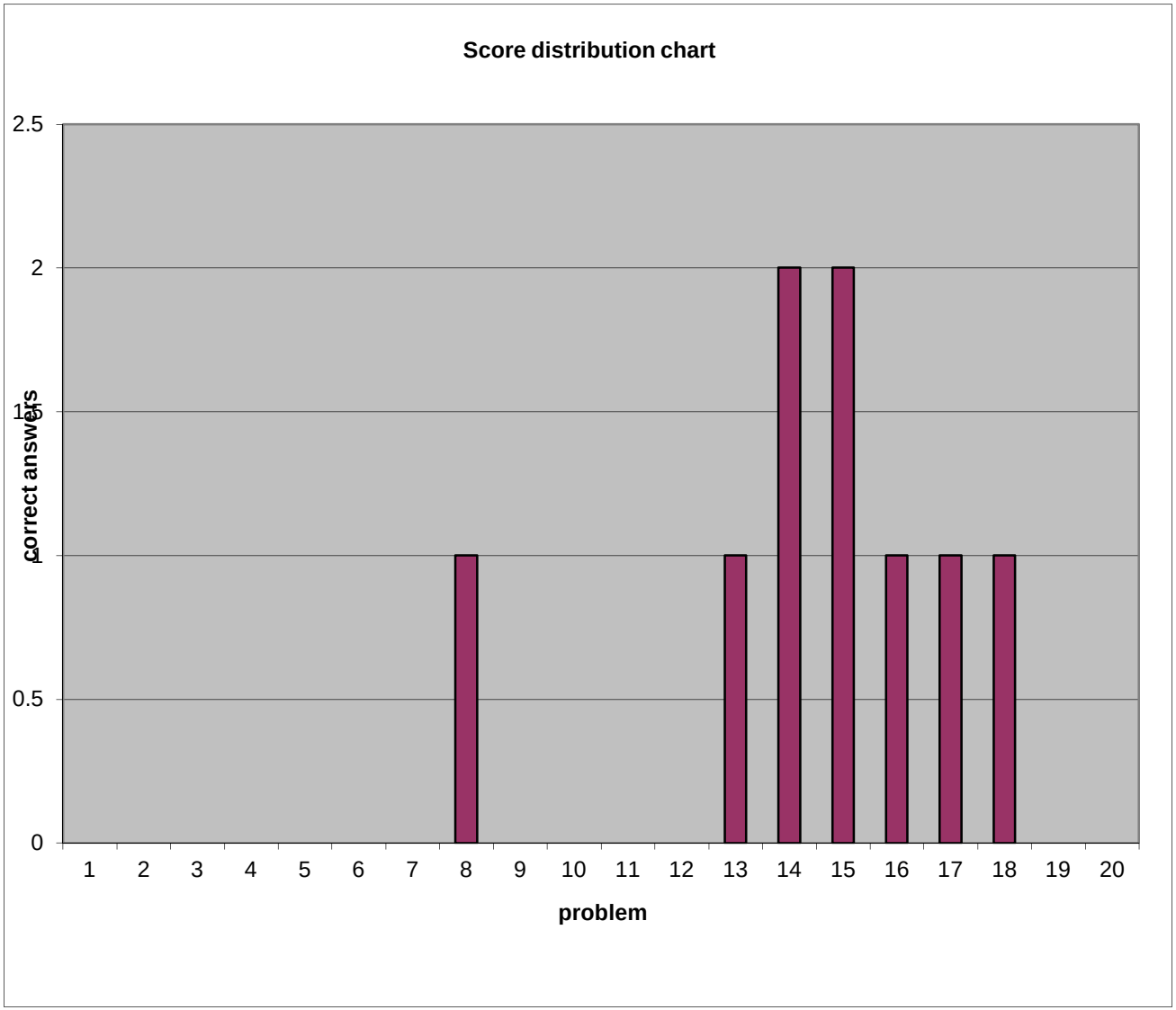


The above table indicates the number of correct answers for each problem of the assessment instrument.

SP 2014 Math 122 Score Distribution chart

Table II

Problem	Score
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	1
9	0
10	0
11	0
12	0
13	1
14	2
15	2
16	1
17	1
18	1
19	0
20	0
21	0
22	0
23	0
24	0
25	0
Totals	9

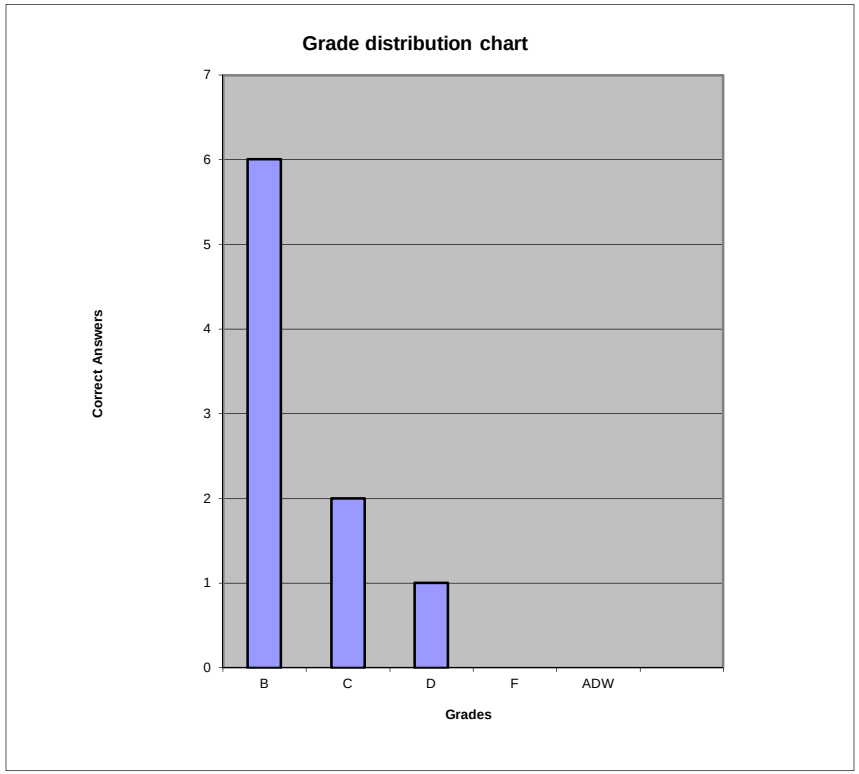


SP 2014 Math 122 Grade Distribution chart

Table III

Grade	Frequency
A	6
B	2
C	1
D	0
F	0
ADW	0
WTH	0
TOTALS	9

Section	A	B	C	D	F	ADW	WTH	Totals
M 122EG	6	2	1	0	0	0	0	9
	..	..	..	..				
TOTALS	6	2	1	0	0	0	0	9



SP 2014 Math 122 - Item Analysis

Section	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	#14	#15	#16	# 17	# 18	# 19	# 20	#21	#22	#23	#24	#25	Class Size
M 122 EG	6	5	6	3	7	4	9	8	9	5	9	8	7	9	6	5	8	1								9
TOTALS	6	5	6	3	7	4	9	8	9	5	9	8	7	9	6	5	8	1	0	0						9

SP 2014 Math 122 - Score Distribution

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 122EG	0	0	0	0	0	0	0	1	0	0	0	0	1	2	2	1	1	1								9
TOTALS	0	0	0	0	0	0	0	1	0	0	0	0	1	2	2	1	1	1	0	0	0	0	0	0	0	9

DEPARTMENTAL ASSESSMENT REPORT

Department: Mathematics
Academic Year: **2014** Semester: **Fall**
Course Assessed: **Math 125** **Introductory statistics**
No of Students Assessed: 186
Type of Assessment: **A 20-problems Test**

Course Coordinator **Jose Hernandez**

ANALYSIS OF OVERALL RESULTS

1. Expected competency level:	**40%**
2. How many students met the competency level?	163
3. What % of students met the competency level?	88%
4. No. of students enrolled in the course:	235
5. No. of students completing the final exam:	163
6. % of students completing the final exam:	88%
7. No. of students receiving a grade C or better:	151
8. % of students receiving a grade C or better:	81%
9. % of enrolled students passing with C or better:	64%

10. What objectives were not met by the majority of the students:
Objectives 11,13,15 and 18 were not met
11. Was the assessment instrument adequate:
Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured? Why not? Is it possible to make the instrument such that to measure all objectives?
All objectives were measured.
13. Comments - Recommendations:

Objective # 1 Demonstrate knowledge of statistical terms such as population, sample, or (response) variable, data types, or descriptive and inferential statistics.
Assessed by problem #1.
Number of correct answers: 88
% of correct answers: 47%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 2 Identify sampling techniques.
Assessed by problem # 2.
Number of correct answers: 94
% of correct answers: 51%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 3 Construct a frequency distribution from raw data.
Assessed by problem # 3.
Number of correct answers: 113
% of correct answers: 61%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 4 Interpret data in graphical form such as a histogram, stem-and-leaf plot or box-and-whisker plot.
Assessed by problem # 4.
Number of correct answers: 74
% of correct answers: 40%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 5 Describe data by measures of center, variation or position.
Assessed by problem # 5.
Number of correct answers: 123
% of correct answers: 66%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 6 Knowledge of terms related to probability. Experience, outcomes, sample space.
Assessed by problem # 6.
Number of correct answers: 61
% of correct answers: 33%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 7 Demonstrate proper use of the rules of probability.
Assessed by problem # 7.
Number of correct answers: 100
% of correct answers: 54%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 8 Construct a probability distribution for discrete random variables.
Assessed by problem # 8.
Number of correct answers: 123
% of correct answers: 66%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 9 Compute the mean, variance, or standard deviation of a discrete probability distributio
Assessed by problem # 9.
Number of correct answers: 124
% of correct answers: 67%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 10 Perform a computation for a special discrete probability distribution.
Assessed by problem # 10.
Number of correct answers: 80
% of correct answers: 43%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 11 Demonstrate knowledge of the properties for a normal or standard normal distribution.
Assessed by problem # 11.
Number of correct answers: 112
% of correct answers: 60%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 12 Compute an area under the normal curve.
Assessed by problem # 12.
Number of correct answers: 99
% of correct answers: 53%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 13. Solve an application problem involving the normal distribution.
Assessed by problem # 13.
Number of correct answers: 80
% of correct answers: 43%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 14 Demonstrate knowledge of the Central Limit Theorem.
Assessed by problem # 14.
Number of correct answers: 75
% of correct answers: 40%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 15 Solve an application problem involving the Central Limit Theorem.
Assessed by problem # 15.
Number of correct answers: 95
% of correct answers: 51%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 16 Demonstrate knowledge of terms related to interval estimation.
Assessed by problem # 16.
Number of correct answers: 108
% of correct answers: 58%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 17 Compute a confidence interval or sample size needed for the population mean or population proportion.
Assessed by problem # 17.
Number of correct answers: 84
% of correct answers: 45%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 18 Interpret a confidence interval for the population mean or proportion.
Assessed by problem # 18.
Number of correct answers: 107
% of correct answers: 58%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:
*

Objective # 19 Demonstrate knowledge of terms related to hypothesis testing.
Assessed by problem # 19.
Number of correct answers: 93
% of correct answers: 50%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

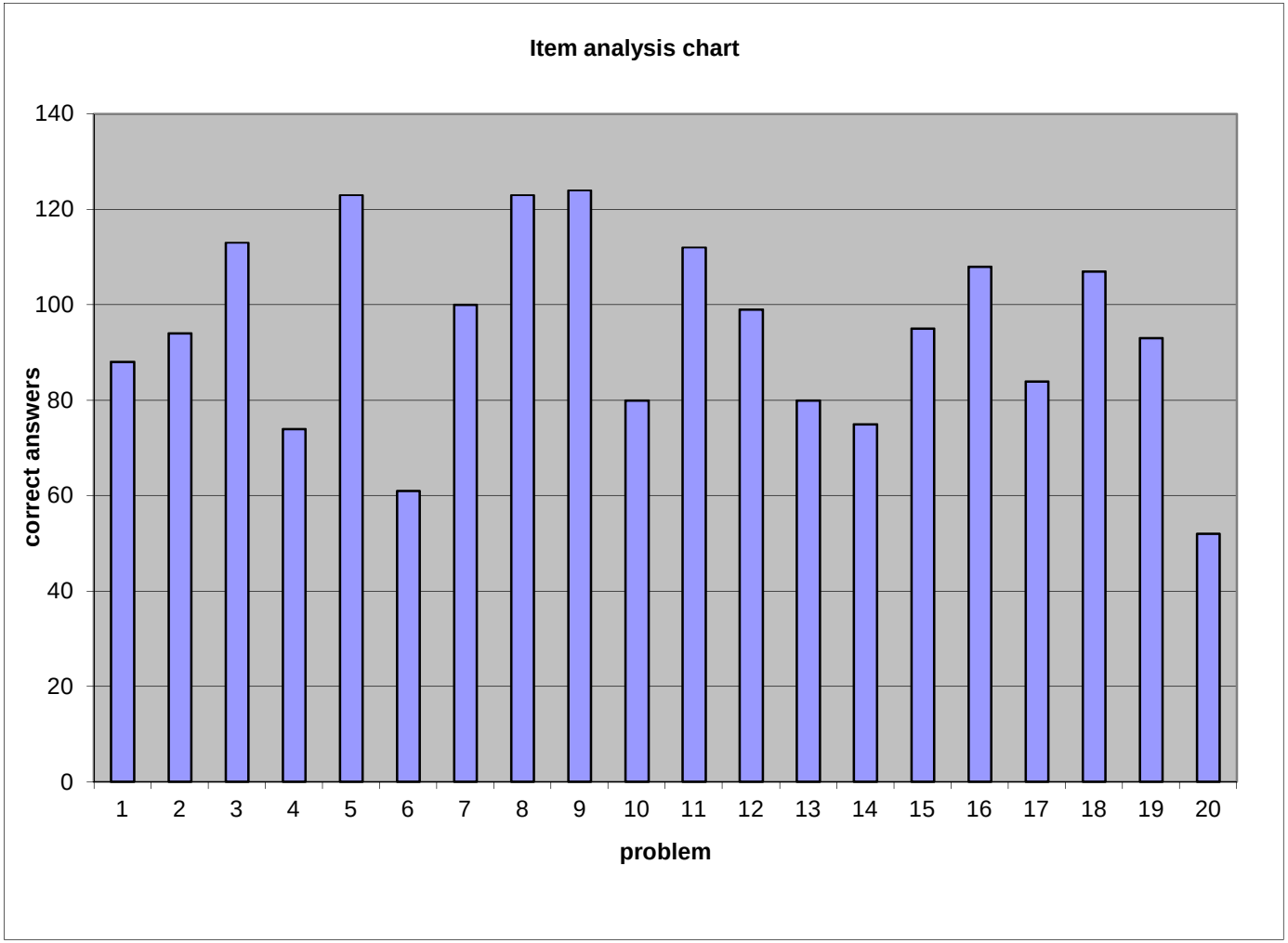
Objective # 20 Perform or state a hypothesis test for the population mean or proportion
Assessed by problem # 20.
Number of correct answers: 52
% of correct answers: 28%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 21 Perform or state a hypothesis test for the population mean or proportion
Assessed by problem # 21
Number of correct answers: 120
% of correct answers: 65%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Math 125 Item analysis chart SP 2014

Table I

Problems	Frequency
1	88
2	94
3	113
4	74
5	123
6	61
7	100
8	123
9	124
10	80
11	112
12	99
13	80
14	75
15	95
16	108
17	84
18	107
19	93
20	52
21	120

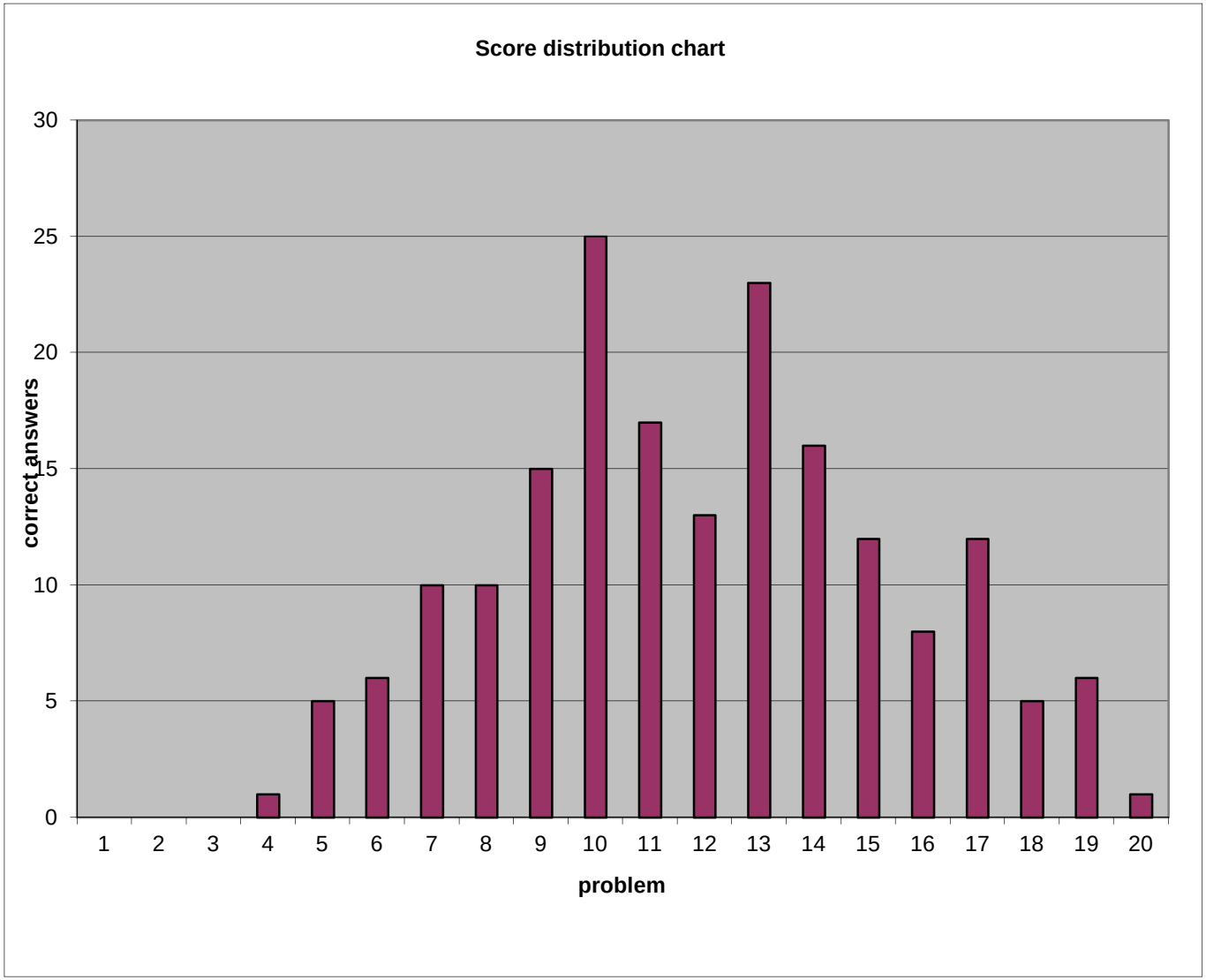


The above table indicates the number of correct answers for each problem of the assessment instrument.

SP 2014 Math 125 Score Distribution chart

Table II

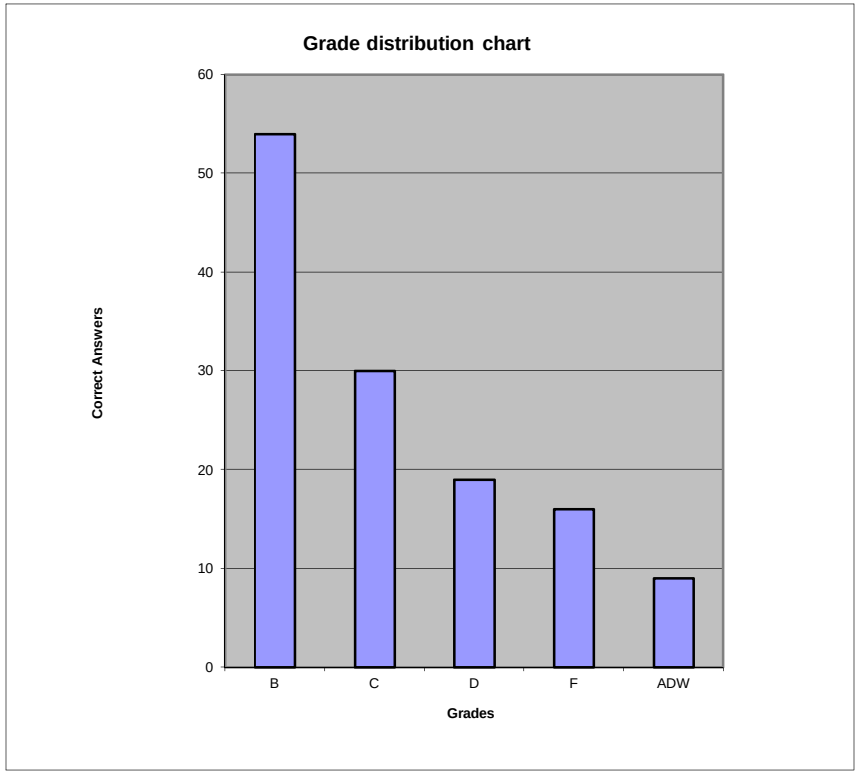
Problem	Score
1	0
2	0
3	0
4	1
5	5
6	6
7	10
8	10
9	15
10	25
11	17
12	13
13	23
14	16
15	12
16	8
17	12
18	5
19	6
20	1
21	1
Totals	186



SP 2014 Math 125 Grade Distribution chsrt

Table III

Grade	Frequency
A	67
B	54
C	30
D	19
F	16
ADW	9
WTH	40
TOTALS	235



Section	A	B	C	D	F	ADW	A -W	Totals
M 125 AC	4	5	7	6	6	4	10	42
M 125 BD	13	19	7	2	2	0	1	44
M 125 EG	28	0	0	0	1	2	4	35
M 125 3LC	6	4	3	2	1	1	8	25
M 125 GBK	0	10	4	0	1	0	2	17
M 125 JL								
M 125 NP	9	8	4	1	4	1	9	36
M 125RT	7	8	5	8	1	1	6	36
TOTALS	67	54	30	19	16	9	40	235

SP 2014 Math 125 - Item Analysis

Section	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	#14	#15	#16	# 17	# 18	# 19	# 20	#21	Class Size
M 125 AC	17	22	24	10	15	16	17	23	23	24	21	16	7	11	14	15	14	20	11	15	16	26
M 125 BD	30	26	31	22	37	5	24	33	33	8	30	22	34	15	30	19	31	30	26	9	39	41
M 125 EG	4	14	12	9	19	9	13	18	16	16	11	15	14	10	8	19	12	16	18	10	16	26
M 125 3LC	7	3	10	5	7	5	11	6	11	6	11	8	7	7	6	6	6	4	4	5	13	14
M 125 GBK	2	4	5	4	10	2	9	10	7	3	9	8	5	8	7	13	3	9	7	3	13	14
M 125 JL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
M 125 NP	6	10	14	3	18	8	12	12	16	7	12	12	6	8	12	14	5	11	12	0	8	20
M 125RT	22	15	17	21	17	16	14	21	18	16	18	18	7	16	18	22	13	17	15	10	15	29
TOTALS	88	94	113	74	123	61	100	123	124	80	112	99	80	75	95	108	84	107	93	52	120	170

SP 2014 Math 125 - Score Distribution

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	Totals
M 125 AC	0	0	0	0	1	0	0	0	2	1	3	3	4	4	0	2	2	1	3	0	0	26
M 125 BD	0	0	0	0	0	0	3	0	3	3	3	1	9	6	5	2	1	3	2	0	0	41
M 125 EG	0	0	0	0	0	2	2	1	3	4	3	2	1	3	1	1	2	0	0	0	1	26
M 125 3LC	0	0	0	0	1	1	2	1	0	1	1	4	2	0	0	2	0	0	0	0	0	15
M 125 GBK	0	0	0	0	0	0	0	0	3	8	1	1	1	0	0	0	0	0	0	0	0	14
M 125 JL		0	0	0	0	0	1	1	0	3	2	0	0	1	1	0	2	0	1	0	0	12
M 125 NP	0	0	0	1	2	2	1	2	1	4	2	0	3	2	1	1	1	0	0	0	0	23
M 125RT	0	0	0	0	1	1	1	5	3	1	2	2	3	0	4	0	4	1	0	1	0	29
TOTALS	0	0	0	1	5	6	10	10	15	25	17	13	23	16	12	8	12	5	6	1	1	186

DEPARTMENTAL ASSESSMENT REPORT

Department: Mathematics
Academic Year: **2014** Semester: **Fall**
Course Assessed: **Math 140** **College Mathematics, Concepts in Algebra**
No of Students Assessed: 101
Type of Assessmer **A 25-problem final exam.**

Course Coordinator

ANALYSIS OF OVERALL RESULTS

1. Expected competency level: **40%**
2. How many students met the competency level? 94
3. What % of students met the competency level? 93%
4. No. of students enrolled in the course: 186
5. No. of students completing the final exam: 101
6. % of students completing the final exam: 54%
7. No. of students receiving a grade C or better: 89
8. % of students receiving a grade C or better: 88%
9. % of enrolled students passing with C or better: 48%
10. What objectives were not met by the majority of the students:
    Objectives 11, 17, 19, and 20 were not met by the majority of the students.
11. Was the assessment instrument adequate:
    Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured?
    Why not? Is it possible to make the instrument such that to measure all objectives?
    All objectives were measured.
13. Comments - Recommendations:

Objective # 1 Solving problems involving factoring polynomials or factoring rational expressions
Assessed by problem #1.
Number of correct answers: 47
% of correct answers: 47%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 2 Performing operations with rational expressions
Assessed by problem # 2.
Number of correct answers: 51
% of correct answers: 50%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 3 Solving problems involving complex fraction.
Assessed by problem # 3.
Number of correct answers: 80
% of correct answers: 79%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 4 Solving rational equations
Assessed by problem # 4.
Number of correct answers: 62
% of correct answers: 61%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 5 Computing problems using the rules of (rational) exponents
Assessed by problem # 5.
Number of correct answers: 72
% of correct answers: 71%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 6 Performing operations with radical terms
Assessed by problem # 6.
Number of correct answers: 70
% of correct answers: 69%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 7 Solving radical equations
Assessed by problem # 7.
Number of correct answers: 63
% of correct answers: 62%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 8 Solving application problems involving first degree and literal equations
Assessed by problem # 8.
Number of correct answers: 75
% of correct answers: 74%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 9 Solving problems involving imaginary or complex numbers
Assessed by problem # 9.
Number of correct answers: 61
% of correct answers: 60%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 10 Solving quadratic equations using factoring, completing the square or the quadratic formula
Assessed by problem # 10.
Number of correct answers: 45
% of correct answers: 45%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 11 Solving linear inequalities
Assessed by problem # 11.
Number of correct answers: 77
% of correct answers: 76%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 12 Solving absolute value equations or inequalities
Assessed by problem # 12.
Number of correct answers: 64
% of correct answers: 63%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 13. Solving rational inequalities
Assessed by problem # 13.
Number of correct answers: 48
% of correct answers: 48%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 14 Solving problems of straight line involving slope, intercepts or parallel and perpendicular lines
Assessed by problem # 14.
Number of correct answers: 45
% of correct answers: 45%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 15 Solving systems of linear equations
Assessed by problem # 15.
Number of correct answers: 81
% of correct answers: 80%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 16 Solving problems involving matrices
Assessed by problem # 16.
Number of correct answers: 83
% of correct answers: 82%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 17 Solving problems using the remainder theorem, factor theorem
Assessed by problem # 17.
Number of correct answers: 55
% of correct answers: 54%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 18 Solving problems using the theory of equations
Assessed by problem # 18.
Number of correct answers: 64
% of correct answers: 63%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:
*

Objective # 19 Solving problems involving exponential and logarithmic functions
Assessed by problem # 19.
Number of correct answers: 37
% of correct answers: 37%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 20 Solving logarithmic equations
Assessed by problem # 20.
Number of correct answers: 55
% of correct answers: 54%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 21 Solving exponential equations
Assessed by problem # 21.
Number of correct answers: 41
% of correct answers: 41%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 22 Performing basic operations with functions
Assessed by problem # 22
Number of correct answers: 71
% of correct answers: 70%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 23 Computing the inverse functions
Assessed by problem # 23.
Number of correct answers: 59
% of correct answers: 58%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

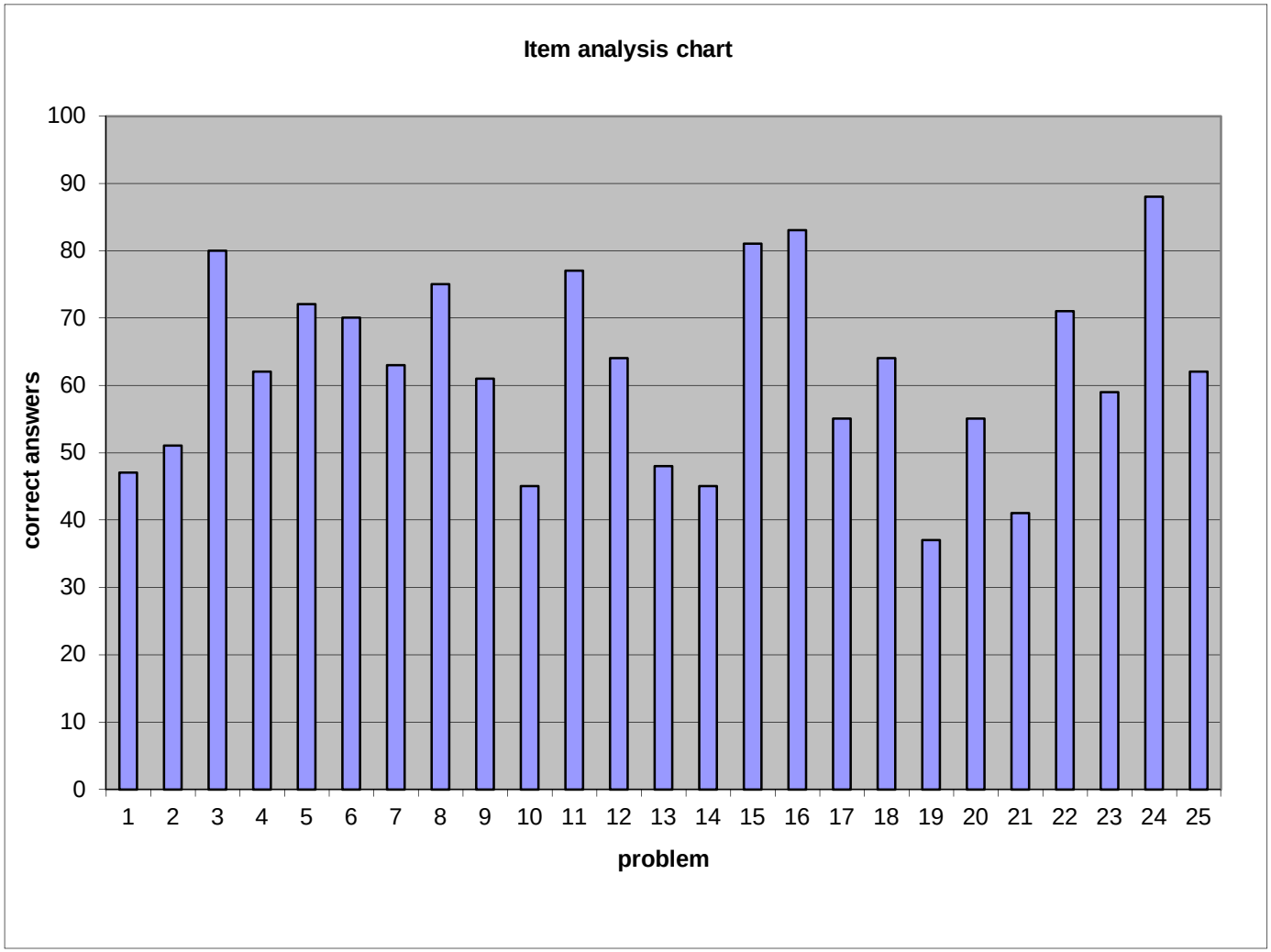
Objective # 24 Solving systems of non-linear equations
Assessed by problem # 24.
Number of correct answers: 88
% of correct answers: 87%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 25 Solving problems involving parabolas, circles, ellipses, hyperbolas
Assessed by problem # 25.
Number of correct answers: 62
% of correct answers: 61%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Math 140 Item analysis chart SP 2014

Table I

Problems	Frequency
1	47
2	51
3	80
4	62
5	72
6	70
7	63
8	75
9	61
10	45
11	77
12	64
13	48
14	45
15	81
16	83
17	55
18	64
10	37
20	55
21	41
22	71
23	59
24	88
25	62
#Students	100

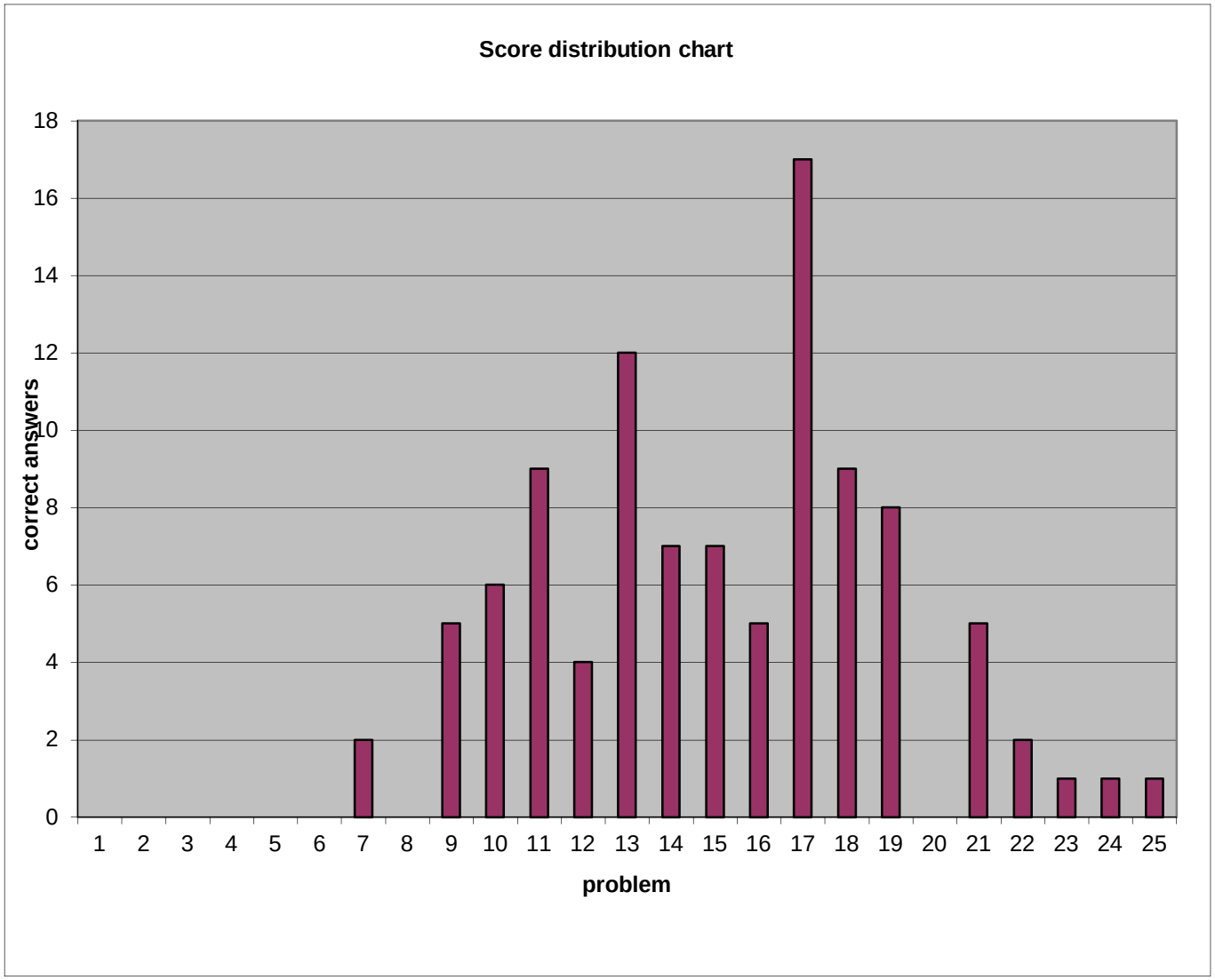


The above table indicates the number of correct answers for each problem of the assessment instrument.

SP 2014 Math 140 Score Distribution chart

Table II

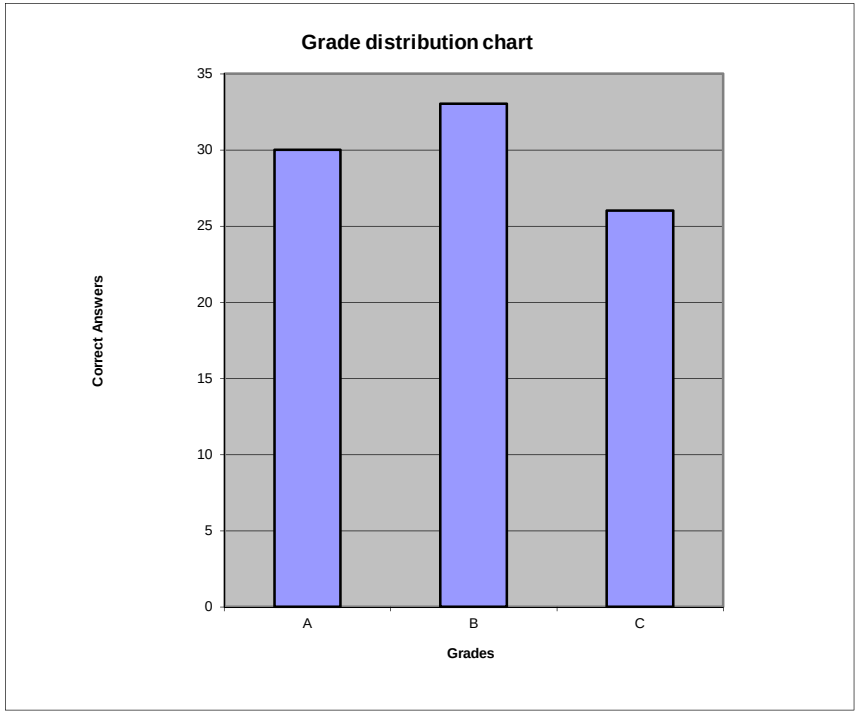
Problem	Score
1	0
2	0
3	0
4	0
5	0
6	0
7	2
8	0
9	5
10	6
11	9
12	4
13	12
14	7
15	7
16	5
17	17
18	9
19	8
20	0
21	5
22	2
23	1
24	1
25	1
Totals	101



SP 2914 Math 140 Grade Distribution chart

Table III

Grade	Frequency
A	30
B	33
C	26
D	9
F	22
ADW	19
WTH	47
TOTALS	186



Section	A	B	C	D	F	ADW	WTH	Totals
M 140 AC	11	7	1	0	0	4	12	35
M 140 BDYR	2	0	2	2	8	0	10	24
M 140 EG	7	9	4	3	5	2	6	36
M 140 HJ	1	5	9	0	4	0	8	27
M 140 JL	4	2	1	1	1	8	1	18
M 140 MO	1	3	1	3	4	5	7	24
M 140SA	4	7	8	0	0	0	3	22
TOTALS	30	33	26	9	22	19	47	186

SP 2014 Math 140 - Item Analysis

Section	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	#14	#15	#16	# 17	# 18	# 19	# 20	# 21	# 22	# 23	# 24	#25	Class Size
M 140 AC	1	1	11	8	13	8	11	11	6	4	11	8	3	8	14	16	8	7	1	4	3	13	6	16	8	17
M 140 BDYR	5	6	6	6	6	5	6	6	6	5	7	5	5	5	7	7	5	6	5	5	6	6	7	6	6	7
M 140 EG	3	2	15	18	13	13	14	19	15	1	15	13	5	10	15	18	10	19	2	19	7	19	14	20	15	22
M 140 HJ	10	12	11	5	14	14	11	12	8	12	10	13	8	4	14	11	9	6	9	10	4	10	9	14	11	16
M 140 JL	7	9	9	7	5	8	7	7	8	7	7	8	8	5	7	6	6	7	6	7	5	5	5	9	4	9
M 140 MO	2	2	9	7	8	8	7	7	9	2	9	5	3	4	7	9	9	7	2	5	6	5	5	8	6	10
M 140 SA	19	19	19	11	13	14	7	13	9	14	18	12	16	9	17	16	8	12	12	5	10	13	13	15	12	19
TOTALS	47	51	80	62	72	70	63	75	61	45	77	64	48	45	81	83	55	64	37	55	41	71	59	88	62	100

SP 2014 Math 140 - Score Distribution

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 140 AC	0	0	0	0	0	0	2	0	2	1	3	2	5	0	1	1	0	0	1	0	0	0	0	0	0	18
M 140 BDYR	O	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	3	1	0	0	0	0	0	0	0	7
M 140 EG	0	0	0	0	0	0	0	0	2	1	2	2	1	1	2	2	6	3	0	0	0	0	0	0	0	22
M 140 HJ	0	0	0	0	0	0	0	0	0	1	0	0	1	4	0	2	2	3	1	0	1	1	0	0	0	16
M 140 JL	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	1	1	0	2	0	0	0	1	9
M 140 MO	0	0	0	0	0	0	0	0	1	0	3	0	2	0	1	0	2	1	0	0	0	0	0	0	0	10
M 140 SA	0	0	0	0	0	0	0	0	0	2	0	0	3	1	2	0	1	0	5	0	2	1	1	1	0	19
TOTALS	0	0	0	0	0	0	2	0	5	6	9	4	12	7	7	5	17	9	8	0	5	2	1	1	1	101

Academic Year: **2014** Semester: **Fall**
Course Assessed: **Math 143** **Pre-Calculus**
No of Students Assessed: 209
Type of Assessment: **A 24-problems Test**

Course Coordinator **Hellen Colman**

ANALYSIS OF OVERALL RESULTS

1. Expected competency level:	**40%**
2. How many students met the competency level?	209
3. What % of students met the competency level?	100%
4. No. of students enrolled in the course:	241
5. No. of students completing the final exam:	209
6. % of students completing the final exam:	87%
7. No. of students receiving a grade C or better:	140
8. % of students receiving a grade C or better:	67%
9. % of enrolled students passing with C or better:	58%

10. What objectives were not met by the majority of the students:
    All objectives were met by the majority of the students.
11. Was the assessment instrument adequate:
    Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured? Why not? Is it possible to make the instrument such that to measure all objectives?
    All objectives were measured.
13. Comments - Recommendations:

Objective # 1 Polynomials - Factoring.
Assessed by problem #1.
Number of correct answers: 192
% of correct answers: 92%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 2 Rational Exponents.
Assessed by problem # 2.
Number of correct answers: 117
% of correct answers: 56%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 3 Complex Numbers.
Assessed by problem # 3.
Number of correct answers: 166
% of correct answers: 79%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 4 Quadratic Equations.
Assessed by problem # 4.
Number of correct answers: 192
% of correct answers: 92%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 5 Inequalities- linear, absolute, value, quadratic, rational.
Assessed by problem # 5.
Number of correct answers: 155
% of correct answers: 74%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 6 Linear Functions.
Assessed by problem # 6.
Number of correct answers: 148
% of correct answers: 71%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 7 Circle, Quadratic function.
Assessed by problem # 7.
Number of correct answers: 174
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 8 Conic Sections.
Assessed by problem # 8.
Number of correct answers: 147
% of correct answers: 70%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 9 Remainder theorem, Factor theorem, Synthetic division.
Assessed by problem # 9.
Number of correct answers: 144
% of correct answers: 69%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 10 Fundamental theorem, Conjugate pair theorem
Assessed by problem # 10.
Number of correct answers: 174
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 11 Descartes' Rule, Rational roots theorem, Upper/lower bound theorem.
Assessed by problem # 11.
Number of correct answers: 134
% of correct answers: 64%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 12 Exponential/Logarithmic functions Graphs, Equations, and applications.
Assessed by problem # 12.
Number of correct answers: 129
% of correct answers: 62%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 13. Function - Composition, Inverse
Assessed by problem # 13.
Number of correct answers: 164
% of correct answers: 78%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 14 Systems of linear and nonlinear equations, matrices, determinants Cramer's Rule.
Assessed by problem # 14.
Number of correct answers: 156
% of correct answers: 75%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 15 Systems of non-linear equations.
Assessed by problem # 15.
Number of correct answers: 124
% of correct answers: 59%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 16 Sequence - explicit/recursive definition
Assessed by problem # 16.
Number of correct answers: 103
% of correct answers: 49%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 17 Arithmetic/geometric series.
Assessed by problem # 17.
Number of correct answers: 100
% of correct answers: 48%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 18 Permutations and combinations.
Assessed by problem # 18.
Number of correct answers: 174
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 19 Binomial theorem
Assessed by problem # 19.
Number of correct answers: 176
% of correct answers: 84%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 20 Trigonometric functions - graphs, Pythagorean identities
Assessed by problem # 20.
Number of correct answers: 192
% of correct answers: 92%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 21 Associated angles
Assessed by problem # 21.
Number of correct answers: 184
% of correct answers: 88%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 22 Sum and difference formulas, double and half angle identities.
Assessed by problem # 22
Number of correct answers: 187
% of correct answers: 89%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 23 Trigonometric equations and inverse trigonometric function.
Assessed by problem # 23.
Number of correct answers: 152
% of correct answers: 73%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

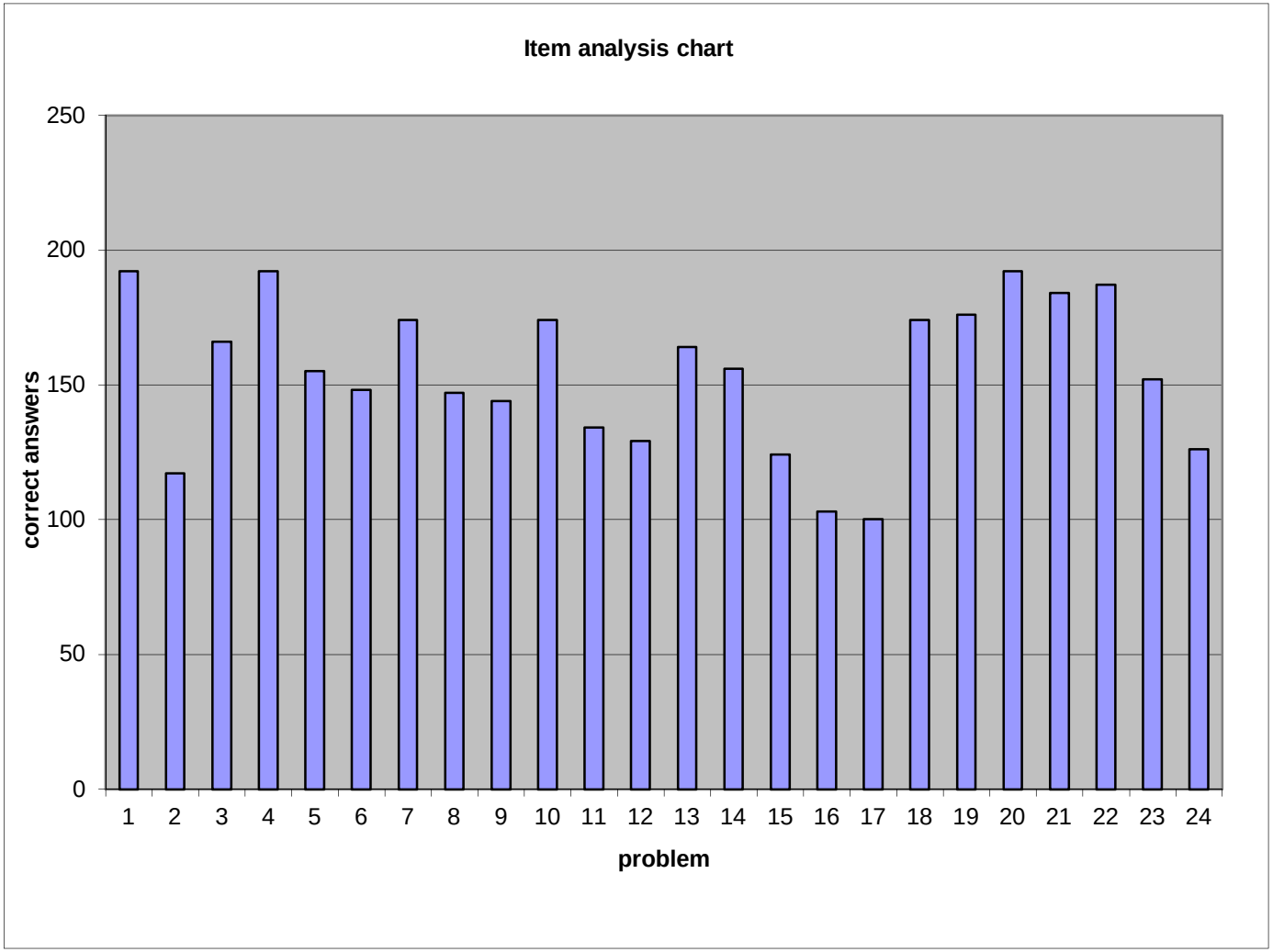
Objective # 24 Laws of sines, cosines and area of a triangle.
Assessed by problem # 24.
Number of correct answers: 126
% of correct answers: 60%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 25
Assessed by problem # 25
Number of correct answers: 152
% of correct answers: 73%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Math 143 Item analysis chart SP 2014

Table I

Problems	Frequency
1	192
2	117
3	166
4	192
5	155
6	148
7	174
8	147
9	144
10	174
11	134
12	129
13	164
14	156
15	124
16	103
17	100
18	174
10	176
20	192
21	184
22	187
23	152
24	126
25	152

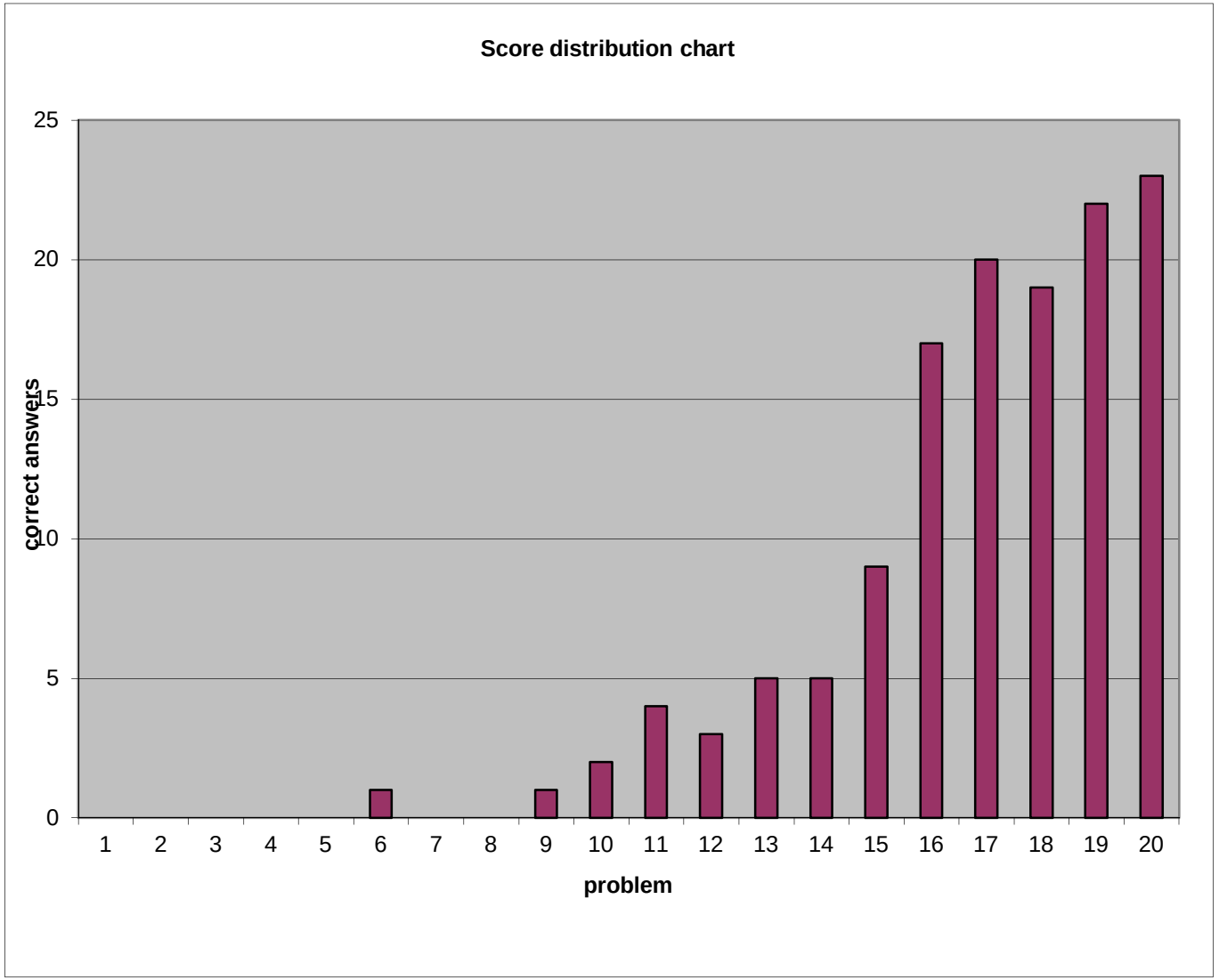


The above table indicates the number of correct answers for each problem of the assessment instrument.

SP 2014 Math 143 Score Distribution chart

Table II

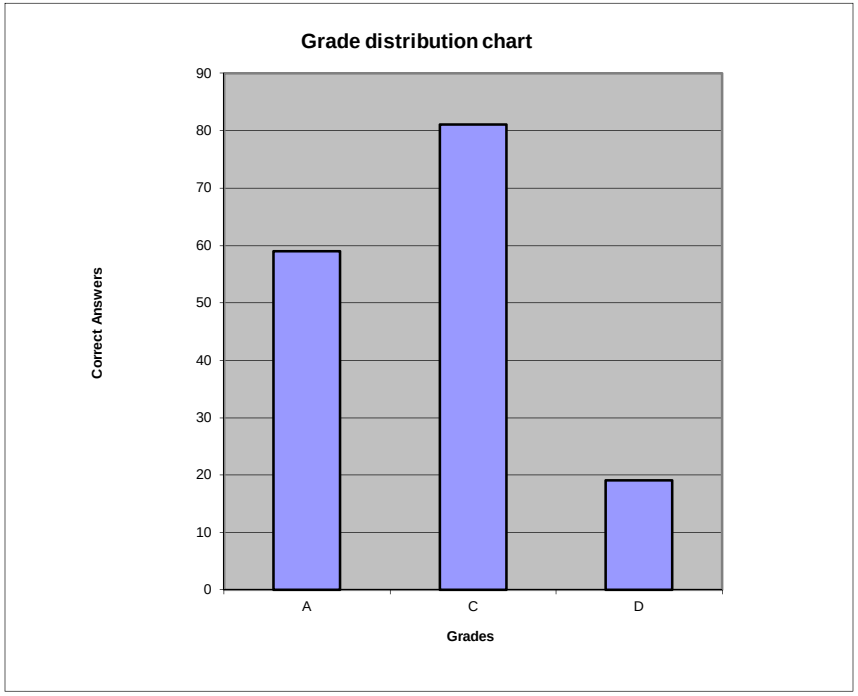
Problem	Score
1	0
2	0
3	0
4	0
5	0
6	1
7	0
8	0
9	1
10	2
11	4
12	3
13	5
14	5
15	9
16	17
17	20
18	19
19	22
20	23
21	20
22	22
23	14
24	15
25	7
Totals	209



SP 2014 Math 143 - Grade Distribution chart

Table III

Grade	Frequency
A	59
C	81
D	19
F	19
ADW	16
WTH	47
Totals	241



Section	A	B	C	D	F	ADW	WTH	Totals
M 143 AC	6	9	8	5	1	0	7	36
M 143 BD	11	13	5	1	1	1	5	37
M 143 FH	5	3	20	2	2	0	5	37
M 143 IK	10	9	10	1	1	4	7	42
M143 JL	6	7	3	1	0	5	11	33
M 143 MO	15	12	8	2	4	0	4	45
M 143 NP	5	4	24	1	3	0	5	42
M 143 LNP	1	3	3	6	7	6	3	29
								0
TOTALS	59	60	81	19	19	16	47	301

SP 2014 Math 143 - Item Analysis

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 143 AC	23	11	21	27	21	18	13	27	18	24	17	19	25	20	14	15	17	22	26	27	23	25	17	16	20	28
M 143 BD	27	9	24	24	27	19	26	26	17	20	21	17	22	19	11	15	18	24	24	27	23	24	17	14	18	29
M 143 FH	31	16	20	31	12	20	28	23	21	23	16	16	22	18	20	13	9	26	30	29	30	31	29	18	24	32
M 143 IK	31	22	29	30	26	23	29	24	26	28	18	24	24	25	23	23	20	29	27	28	30	30	23	25	29	31
M143 JL	14	11	15	16	16	14	16	13	11	16	11	11	8	13	14	14	13	16	14	16	16	14	10	11	13	17
M 143 MO	35	23	30	35	35	32	32	32	28	34	23	19	31	34	16	12	19	28	25	33	29	34	30	18	22	37
M 143 NP	31	25	27	29	18	22	30	2	23	29	28	23	32	27	26	11	4	29	30	32	33	29	26	24	26	33
M 143 LNP	18	3	11	15	12	11	16	10	10	12	18	15	15	12	13	9	6	12	14	17	16	14	9	11	10	18
TOTALS	192	117	166	192	155	148	174	147	144	174	134	129	164	156	124	103	100	174	176	192	184	187	152	126	152	225

SP 2014 Math 143 - Score Distribution

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 143 AC	0	0	0	0	0	0	0	0	0	2	0	0	2	0	2	3	3	3	2	1	2	5	2	1	1	29
M 143 BD	0	0	0	0	0	1	0	0	0	0	0	1	1	0	3	5	4	1	2	2	2	3	1	5	0	31
M 143 FH	0	0	0	0	0	0	0	0	0	0	1	0	2	2	1	4	6	4	8	1	2	0	1	0	0	32
M 143 IK	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	3	2	3	2	3	4	6	4	31
M143 JL	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	3	3	1	4	1	1	16
M 143 MO	0	0	0	0	0	0	0	0	1	0	2	0	0	2	1	1	3	3	4	6	5	6	1	2	0	37
M 143 NP	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	4	5	3	7	4	4	1	0	1	33
M 143 LNP	0	0	0	0	0	0	0	0	0	1	1	2	1	1	2	1	1	1	1	3	0	1	1	1	0	18
TOTALS	0	0	0	0	0	1	0	0	1	2	4	3	5	5	9	17	20	19	22	23	20	22	14	15	7	227

DEPARTMENTAL ASSESSMENT REPORT

Department: Mathematics
Academic Year: **2014** Semester: **Fall**
Course Assessed: **Math 144** **Finite Mathematics**
No of Students Assessed: 12
Type of Assessment: **A 20-problems Test**

Course Coordinator: **Sharda Gudehithlu**

ANALYSIS OF OVERALL RESULTS

1. Expected competency level: **40%**
2. How many students met the competency level? 12
3. What % of students met the competency level? 100%
4. No. of students enrolled in the course: 18
5. No. of students completing the final exam: 12
6. % of students completing the final exam: 67%
7. No. of students receiving a grade C or better: 12
8. % of students receiving a grade C or better: 100%
9. % of enrolled students passing with C or better: 67%
10. What objectives were not met by the majority of the students:
    Objectives 4,16 and 20 were not met by the majority of the students
11. Was the assessment instrument adequate:
    Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured?
    Why not? Is it possible to make the instrument such that to measure all objectives?
    All objectives were measured.
13. Comments - Recommendations:

NOTE: 4 students completed the final exam separate and passed. That is what the difference is between 43 completing and 47 receiving C or better grade.

Objective # 1 Solving or graphing linear equations or inequalities
Assessed by problem #1.
Number of correct answers: 11
% of correct answers: 92%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 2 Systems of linear equations in two and three variables.
Assessed by problem # 2.
Number of correct answers: 10
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 3 Operations of matrix algebra or matrix inversion.
Assessed by problem # 3.
Number of correct answers: 12
% of correct answers: 100%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 4 Solving systems of equations using matrices. .
Assessed by problem # 4.
Number of correct answers: 10
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 5 Obtaining feasible regions for linear mathematics inequalities
Assessed by problem # 5.
Number of correct answers: 10
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 6 Setting up linear programming problems graphically
Assessed by problem # 6.
Number of correct answers: 11
% of correct answers: 92%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 7 Solving linear programming problems graphically
Assessed by problem # 7.
Number of correct answers: 6
% of correct answers: 50%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 8 Linear programming problems using the simplex method
Assessed by problem # 8.
Number of correct answers: 10
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 9 Problems involving simple or compound interest.
Assessed by problem # 9.
Number of correct answers: 8
% of correct answers: 67%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 10 Problems involving annuities or amortization of loans.
Assessed by problem # 10.
Number of correct answers: 10
% of correct answers: 83%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 11 Problems involving sets and set operations. page 4
Assessed by problem # 11.
Number of correct answers: 10
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 12 Use the principles of counting.
Assessed by problem # 12.
Number of correct answers: 8
% of correct answers: 67%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 13. Solving problems involving permutations or combinations.
Assessed by problem # 13.
Number of correct answers: 11
% of correct answers: 92%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 14 Problems using the basic rules of probability.
Assessed by problem # 14.
Number of correct answers: 10
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 15 Demonstrating knowledge of the terms of probability.
Assessed by problem # 15.
Number of correct answers: 12
% of correct answers: 100%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 16 Problems involving the binomial distribution.
Assessed by problem # 16.
Number of correct answers: 10
% of correct answers: 83%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 17 Computing problems using a frequency or probability distribution.
Assessed by problem # 17.
Number of correct answers: 11
% of correct answers: 92%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 18 Computing the mean or variance, or standard deviation of a probability distribution.
Assessed by problem # 18.
Number of correct answers: 2
% of correct answers: 17%
Did the majority of the students meet this objective: **No**
Comments - Recommendations:
*

Objective # 19 Computing problems involving the normal distribution.
Assessed by problem # 19.
Number of correct answers: 10
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 20 Problem solving involving logic or truth tables.
Assessed by problem # 20.
Number of correct answers: 8
% of correct answers: 67%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 21 .
Assessed by problem # 21
Number of correct answers: 11
% of correct answers: 92%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 22 .
Assessed by problem # 22
Number of correct answers: 12
% of correct answers: 100%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 23 .
Assessed by problem # 23
Number of correct answers: 7
% of correct answers: 58%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

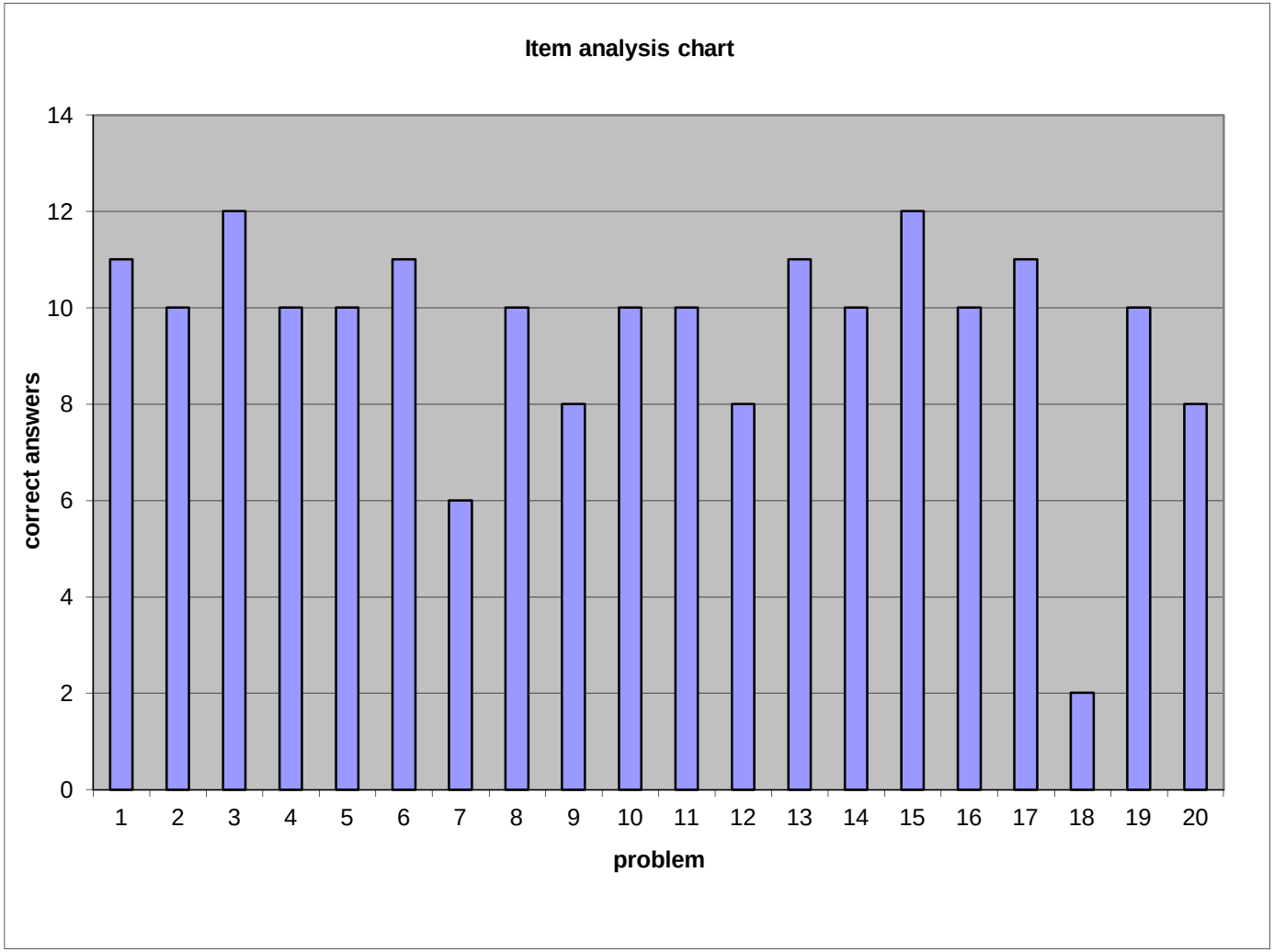
Objective # 24 .
Assessed by problem # 24
Number of correct answers: 11
% of correct answers: 92%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 25 .
Assessed by problem # 25
Number of correct answers: 10
% of correct answers: 83%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Math 144 Item analysis chart SP 2014

Table I

Problems	Frequency
1	11
2	10
3	12
4	10
5	10
6	11
7	6
8	10
9	8
10	10
11	10
12	8
13	11
14	10
15	12
16	10
17	11
18	2
10	10
20	8
21	7
22	12
23	7
24	11
25	10

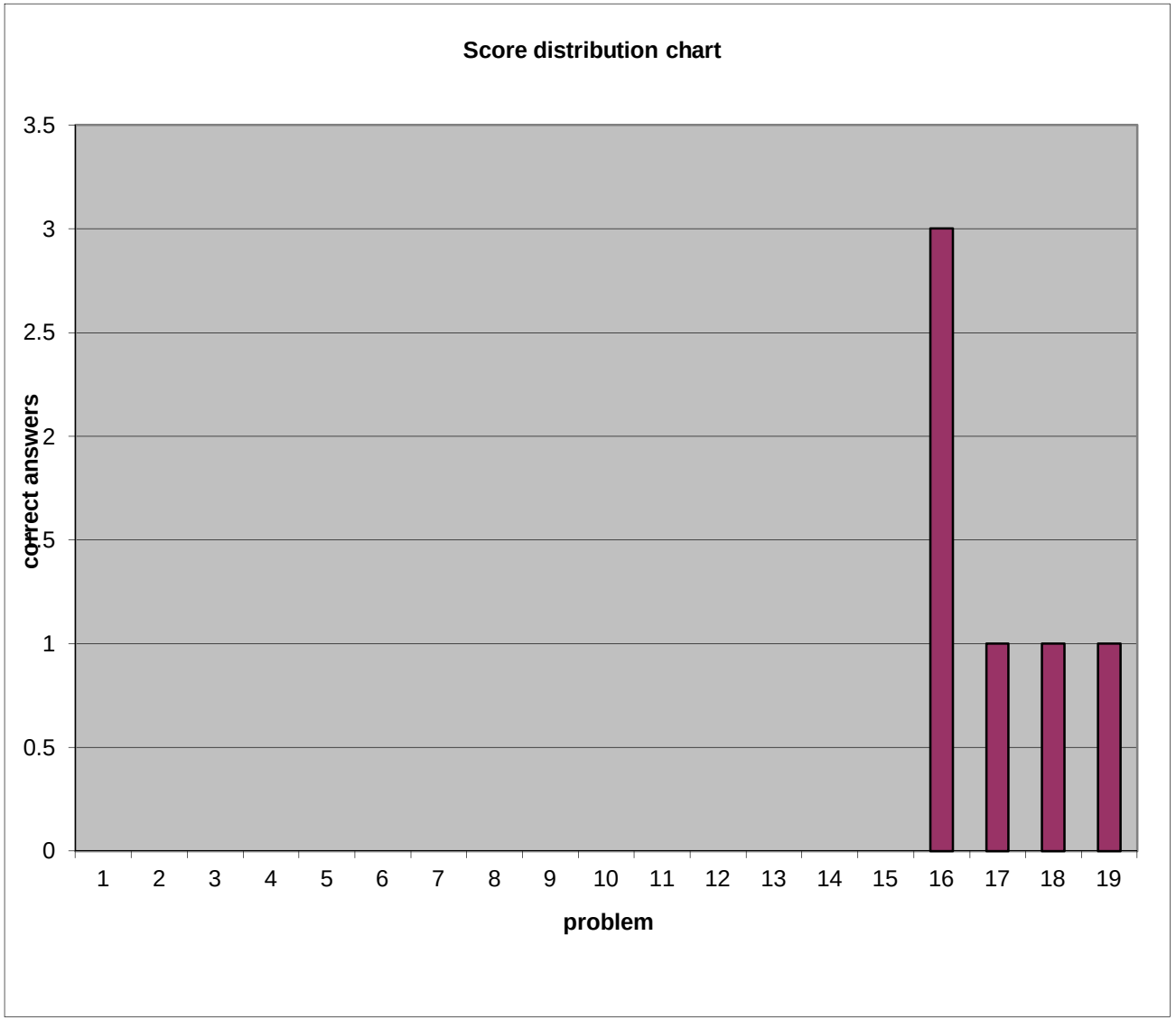


The above table indicates the number of correct answers for each problem of the assessment instrument.

SP 2014 Math 144 Score Distribution chart

Table II

Problem	Score
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	3
17	1
18	1
19	1
20	1
21	0
22	2
23	2
24	1
25	0
TOTALS	12

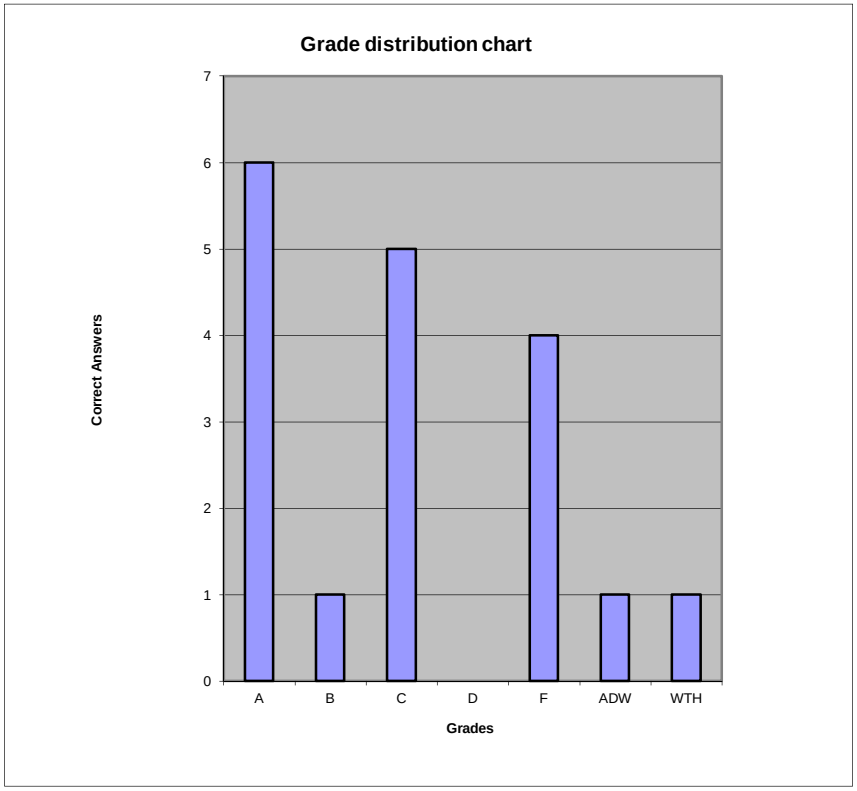


SP 2014 Math 144 Grade Distribution chart

Table III

Grade	Frequency
A	6
B	1
C	5
D	0
F	4
ADW	1
WTH	1
Totals	18

Section	A	B	C	D	F	ADW	WTH	Totals
M 144 GI								
M 144 JL	6	1	5	0	4	1	1	18
M 144 MO								
TOTALS	6	1	5	0	4	1	1	18



SP 2014 Math 144 - Item Analysis

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 144 GI																										
M 144 JL	11	10	12	10	10	11	6	10	8	10	10	8	11	10	12	10	11	2	10	8	7	12	7	11	10	12
M 144 MO																										
TOTALS	11	10	12	10	10	11	6	10	8	10	10	8	11	10	12	10	11	2	10	8	7	12	7	11	10	12

SP 2014 Math 144 - Score Distribution

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 144 GI																										
M 144 JL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	1	1	0	2	2	1	0	12
M 144 MO																										
TOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	1	1	0	2	2	1	0	12

DEPARTMENTAL ASSESSMENT REPORT

Department: Mathematics
Academic Year: **2014** Semester: **Fall**
Course Assessed: **Math 204** **Calculus For Business and Social Sciences**
No of Students Assessed: 18
Type of Assessment: **A 24-problems Test**

Course Coordinator: **Vinay Duggal** **NO DATA SUBMEETED**

ANALYSIS OF OVERALL RESULTS

1.	Expected competency level:	**40%**
2.	How many students met the competency level?	18
3.	What % of students met the competency level?	100%
4.	No. of students enrolled in the course:	34
5.	No. of students completing the final exam:	18
6.	% of students completing the final exam:	53%
7.	No. of students receiving a grade C or better:	13
8.	% of students receiving a grade C or better:	72%
9.	% of enrolled students passing with C or better:	38%

10. What objectives were not met by the majority of the students:
    All objectives were met by the majority of the students.
11. Was the assessment instrument adequate:
    Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured? Why not? Is it possible to make the instrument such that to measure all objectives?
    All objectives were measured.
13. Comments - Recommendations:

Objective # 1 Functions, their domains and graphs
Assessed by problem #1.
Number of correct answers: 15
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 2 Slopes and linear functions
Assessed by problem # 2.
Number of correct answers: 17
% of correct answers: 94%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 3 Quadratic and other types of functions
Assessed by problem # 3.
Number of correct answers: 14
% of correct answers: 78%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

.

Objective # 4 Limits and continuity
Assessed by problem # 4.
Number of correct answers: 12
% of correct answers: 67%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 5 Average rate of change
Assessed by problem # 5.
Number of correct answers: 9
% of correct answers: 50%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 6 Instantaneous rate of change
Assessed by problem # 6.
Number of correct answers: 18
% of correct answers: 100%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 7 Differentiation using limits
Assessed by problem # 7.
Number of correct answers: 8
% of correct answers: 44%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 8 Differentiation techniques
Assessed by problem # 8.
Number of correct answers: 11
% of correct answers: 61%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 9 The chain rule
Assessed by problem # 9.
Number of correct answers: 12
% of correct answers: 67%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 10 Higher-order derivatives
Assessed by problem # 10.
Number of correct answers: 15
% of correct answers: 83%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 11 First and second derivatives and the study of extreme and inflection points

Assessed by problem # 11.
Number of correct answers: 7
% of correct answers: 39%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 12 Graph sketching
Assessed by problem # 12.
Number of correct answers: 2
% of correct answers: 11%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 13. Optimization problems
Assessed by problem # 13.
Number of correct answers: 18
% of correct answers: 100%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 14 Implicit differentiation and related rates
Assessed by problem # 14.
Number of correct answers: 13
% of correct answers: 72%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 15 Exponential functions and their derivatives
Assessed by problem # 15.
Number of correct answers: 16
% of correct answers: 89%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 16 Logarithmic functions and their derivatives
Assessed by problem # 16.
Number of correct answers: 11
% of correct answers: 61%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 17 The fundamental theorem of calculus; evaluation of definite integrals
Assessed by problem # 17.
Number of correct answers: 14
% of correct answers: 78%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 18 Areas under curves
Assessed by problem # 18.
Number of correct answers: 10
% of correct answers: 56%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 19 Integration techniques: substitution, integration by parts, tables
Assessed by problem # 19.
Number of correct answers: 9
% of correct answers: 50%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 20 Improper integrals
Assessed by problem # 20.
Number of correct answers: 11
% of correct answers: 61%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 21 Functions of several variables and their derivatives
Assessed by problem # 21.
Number of correct answers: 2
% of correct answers: 11%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 22 Extrema of functions of several variables and Lagrange multipliers
Assessed by problem # 22
Number of correct answers: 6
% of correct answers: 33%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 23 Relative extrema
Assessed by problem # 23.
Number of correct answers: 16
% of correct answers: 89%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

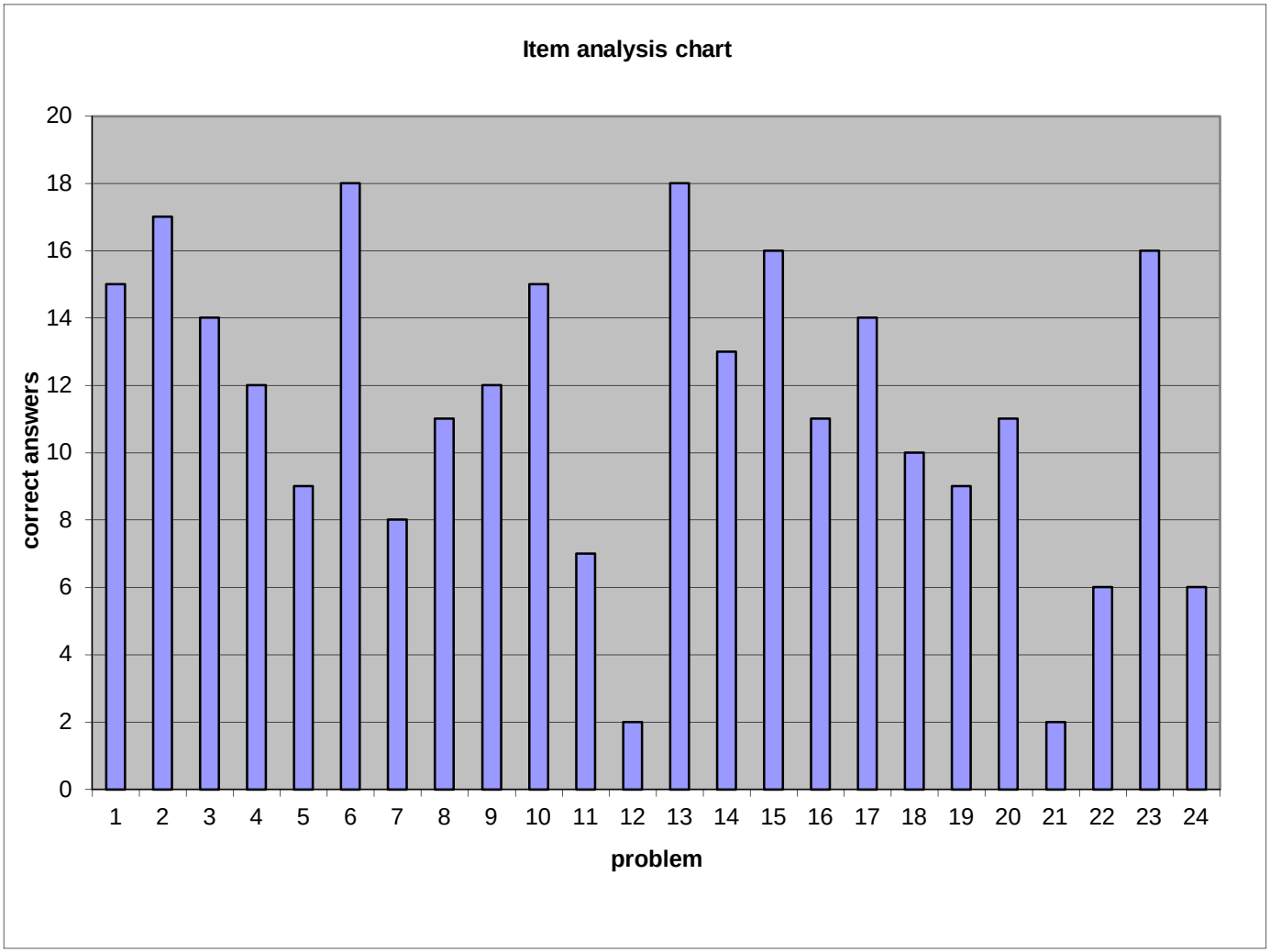
Objective # 24 Maximum of a function subject to a given constraint
Assessed by problem # 24.
Number of correct answers: 6
% of correct answers: 33%
Did the majority of the students meet this objective: **No**
Comments - Recommendations:

Objective # 25 Maximum of a function subject to a given constraint
Assessed by problem # 25.
Number of correct answers: 13
% of correct answers: 72%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Math 204 Item analysis chart SP 2014

Table I

Problems	Frequency
1	15
2	17
3	14
4	12
5	9
6	18
7	8
8	11
9	12
10	15
11	7
12	2
13	18
14	13
15	16
16	11
17	14
18	10
10	9
20	11
21	2
22	6
23	16
24	6

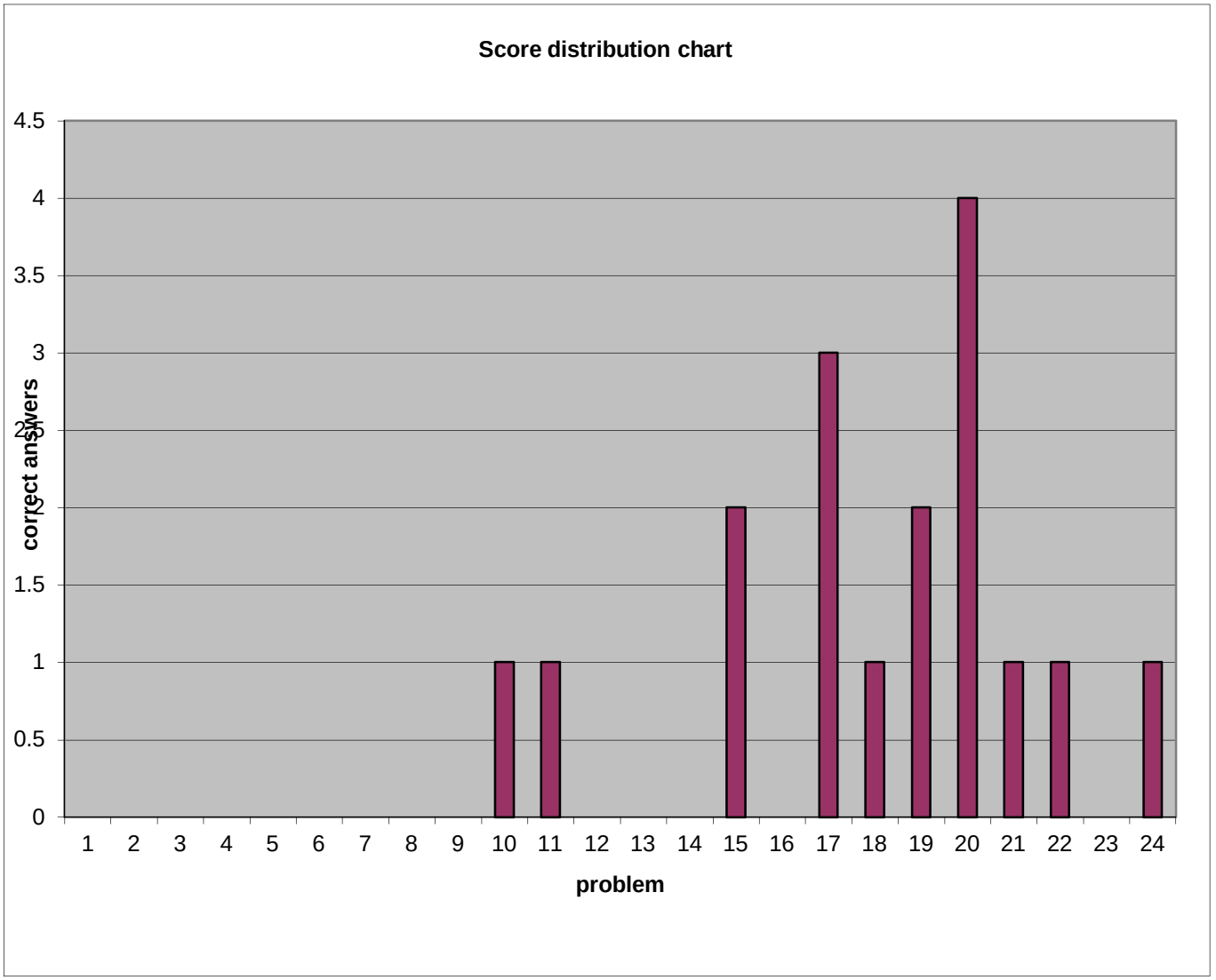


The above table indicates the number of correct answers for each problem of the assessment instrument.

SP 2014 Math 204 Score Distribution chart

Table II

Problem	Score
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	1
11	1
12	0
13	0
14	0
15	2
16	0
17	3
18	1
19	2
20	4
21	1
22	1
23	0
24	1
25	1
Totals	18

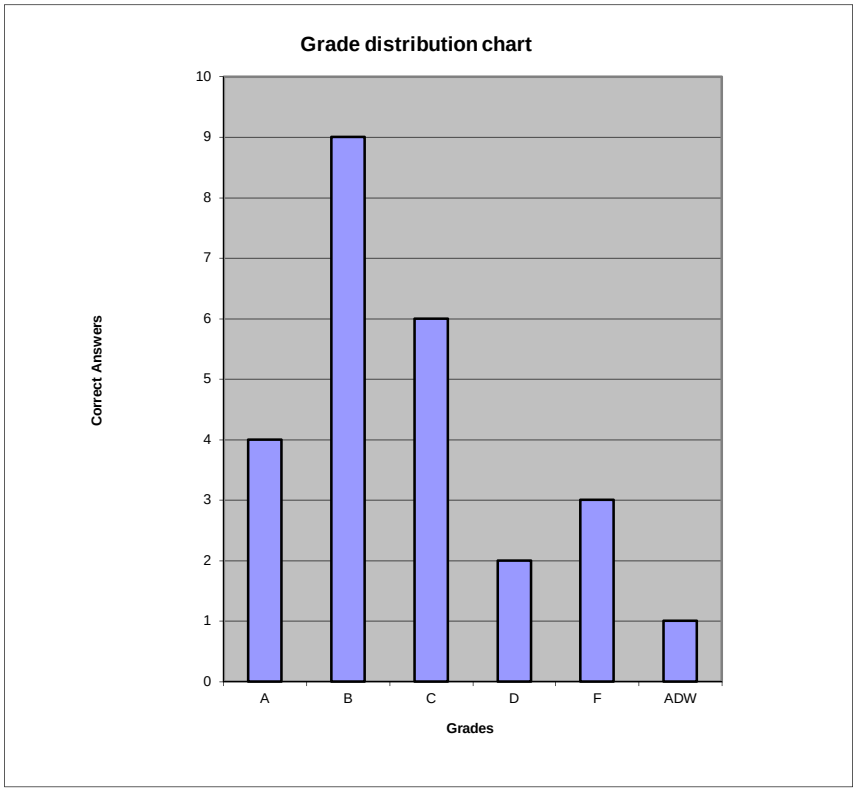


SP 2014 Math 204 Grade Distribution chart

Table III

Grade	Frequency
A	4
B	9
C	6
D	2
F	3
ADW	1
WTH	9
TOTALS	34

Section	A	B	C	D	F	ADW	WTH	Totals
M 204AC	4	9	6	2	3	1	9	34
.	.	.	.	.	.	.	.	.
TOTALS	4	9	6	2	3	1	9	34



SP 2014 Math 204 - Item Analysis

Section	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	#14	#15	#16	# 17	# 18	# 19	# 20	# 21	# 22	# 23	# 24	#25	Class Size
M 204AC	9	11	14	12	9	12	8	11	11	9	7	2	12	9	14	11	14	10	9	11	2	2	10	6	7	12
M 204 QS	6	6	0	0	0	6	0	0	1	6	0	0	6	4	2	0	0	0	0	0	0	4	6	0	6	6
TOTALS	15	17	14	12	9	18	8	11	12	15	7	2	18	13	16	11	14	10	9	11	2	6	16	6	13	18

SP 2014 Math 204 Score distribution

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 204AC	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	3	1	1	1	1	1	0	0	0	12
M 204 QS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	1	1	6
TOTALS	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	3	1	2	4	1	1	0	1	1	18

DEPARTMENTAL ASSESSMENT REPORT

Department: Mathematics
Academic Year: **2014** Semester: **Fall**
Course Assessed: **Math 207** **Calculus and Analytic Geometry I**
No of Students Assessed: 118
Type of Assessment: **A 22-problems Test**

Course Coordinator: **Lidia Dobria**

ANALYSIS OF OVERALL RESULTS

1. Expected competency level: **40%**
2. How many students met the competency level? 110
3. What % of students met the competency level? 93%
4. No. of students enrolled in the course: 201
5. No. of students completing the final exam: 118
6. % of students completing the final exam: 59%
7. No. of students receiving a grade C or better: 123
8. % of students receiving a grade C or better: 104%
9. % of enrolled students passing with C or better: 61%
10. What Learning Outcomes were not met by the majority of the students:
    0nly #18. Antidifferentiation basic rules.
11. Was the assessment instrument adequate:
    Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured?
    Why not? Is it possible to make the instrument such that to measure all objectives?
    All objectives were measured.
13. Comments - Recommendations:
    Emphasize the basic table of differentiation/antidifferention Rules using more examples.

SLO #19: Spend a little more time explaining the substitution process

Objective # 1 Evaluation of Limits.
Assessed by problem #1.
Number of correct answers: 74
% of correct answers: 63%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 2 Vertical and Horizontal Asymptotes.
Assessed by problem # 2.
Number of correct answers: 90
% of correct answers: 76%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 3 Differentiation of Algebraic Functions.
Assessed by problem # 3.
Number of correct answers: 103
% of correct answers: 87%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 4 Differentiation of Trigonometric Functions.
Assessed by problem # 4.
Number of correct answers: 90
% of correct answers: 76%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 5 Chain Rule.
Assessed by problem # 5.
Number of correct answers: 93
% of correct answers: 79%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 6 Implicit Differentiation.
Assessed by problem # 6.
Number of correct answers: 100
% of correct answers: 85%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 7 Differentiation of Logarithmic and Exponential Functions.
Assessed by problem # 7.
Number of correct answers: 90
% of correct answers: 76%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 8 Differentiation of Inverse Trigonometric Functions
Assessed by problem # 8.
Number of correct answers: 89
% of correct answers: 75%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 9 Successive Differentiation
Assessed by problem # 9.
Number of correct answers: 81
% of correct answers: 69%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 10 Rectilinear Motion
Assessed by problem # 10.
Number of correct answers: 101
% of correct answers: 86%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 11 Related Rates
Assessed by problem # 11.
Number of correct answers: 81
% of correct answers: 69%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 12 First derivative: Tangent, Increasing/decreasing functions
Assessed by problem # 12.
Number of correct answers: 62
% of correct answers: 53%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 13. Second Derivative
Assessed by problem # 13.
Number of correct answers: 92
% of correct answers: 78%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 14 Optimization problems
Assessed by problem # 14.
Number of correct answers: 80
% of correct answers: 68%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 15 Logarithmic Differentiation
Assessed by problem # 15.
Number of correct answers: 92
% of correct answers: 78%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 16 Differentials-Error estimation
Assessed by problem # 16.
Number of correct answers: 90
% of correct answers: 76%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 17 L'Hospital's Rule
Assessed by problem # 17.
Number of correct answers: 77
% of correct answers: 65%
Did the majority of the students meet this objective: **MARGINAL**
Comments - Recommendations:

Objective # 18 Antidifferentiation. Basic Rule.
Assessed by problem # 18.
Number of correct answers: 81
% of correct answers: 69%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 19 Integration by substitution
Assessed by problem # 19.
Number of correct answers: 74
% of correct answers: 63%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 20 Integration of Trigonometric functions
Assessed by problem # 20.
Number of correct answers: 93
% of correct answers: 79%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 21 Definite integral. Fundamental theorem of calculus
Assessed by problem # 21.
Number of correct answers: 83
% of correct answers: 70%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 22 Evaluate indefinite Integral by substitution
Assessed by problem # 22
Number of correct answers: 66
% of correct answers: 56%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 23 Evaluate a definite integral
Assessed by problem # 23
Number of correct answers: 74
% of correct answers: 63%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

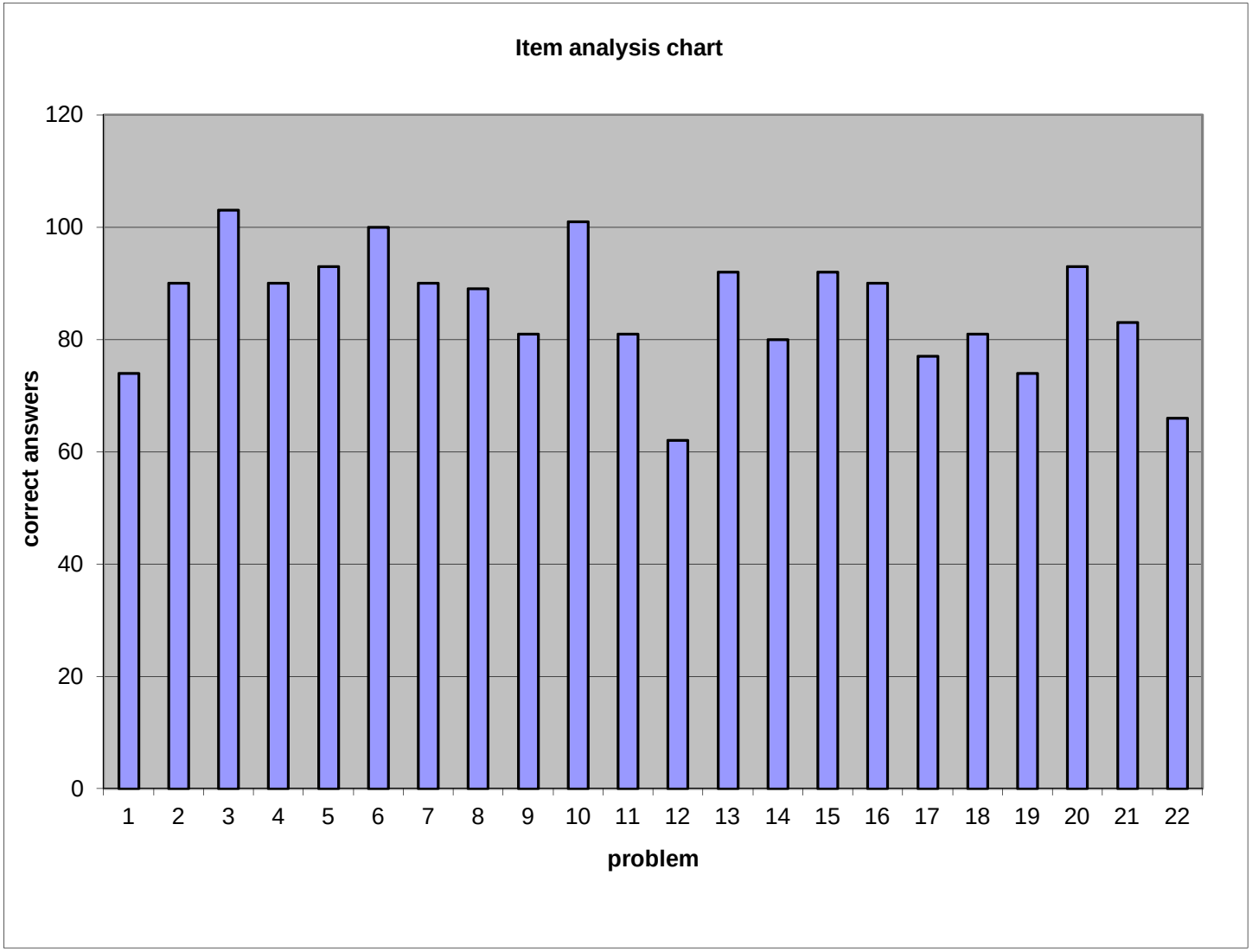
Objective # 24 Average value of a function.
Assessed by problem # 24
Number of correct answers: 74
% of correct answers: 63%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 25 Evaluate a definite integral by substitution
Assessed by problem # 25
Number of correct answers: 71
% of correct answers: 60%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Math 207 - Item analysis chart SP 2014

Table I

Problems	Frequency
1	74
2	90
3	103
4	90
5	93
6	100
7	90
8	89
9	81
10	101
11	81
12	62
13	92
14	80
15	92
16	90
17	77
18	81
10	74
20	93
21	83
22	66

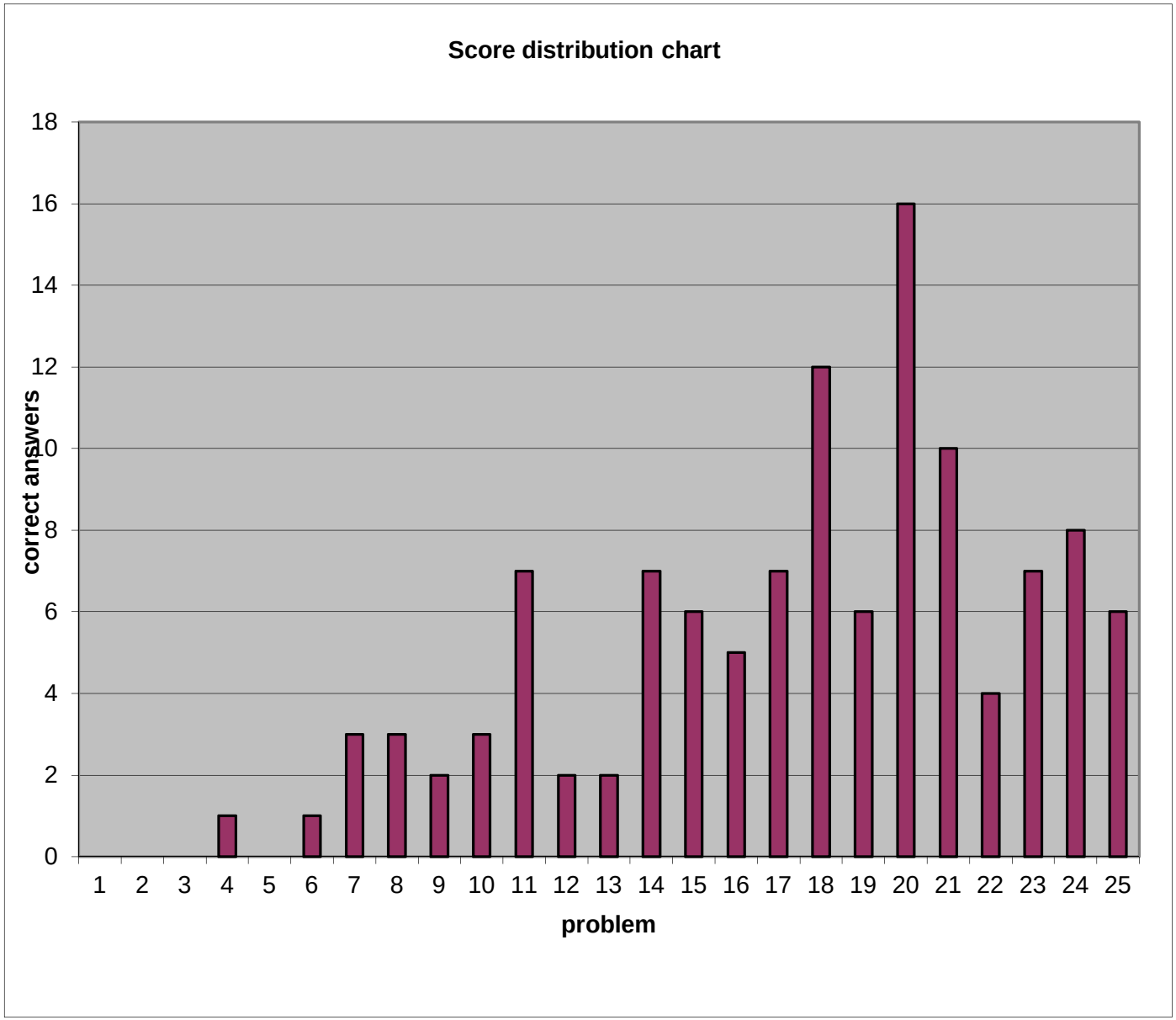


The above table indicates the number of correct answers for each problem of the assessment instrument.

SP 2014 Math 207 - Score Distribution chart

Table II

Problem	Score
1	0
2	0
3	0
4	1
5	0
6	1
7	3
8	3
9	2
10	3
11	7
12	2
13	2
14	7
15	6
16	5
17	7
18	12
19	6
20	16
21	10
22	4
23	7
24	8
25	6
Totals	118

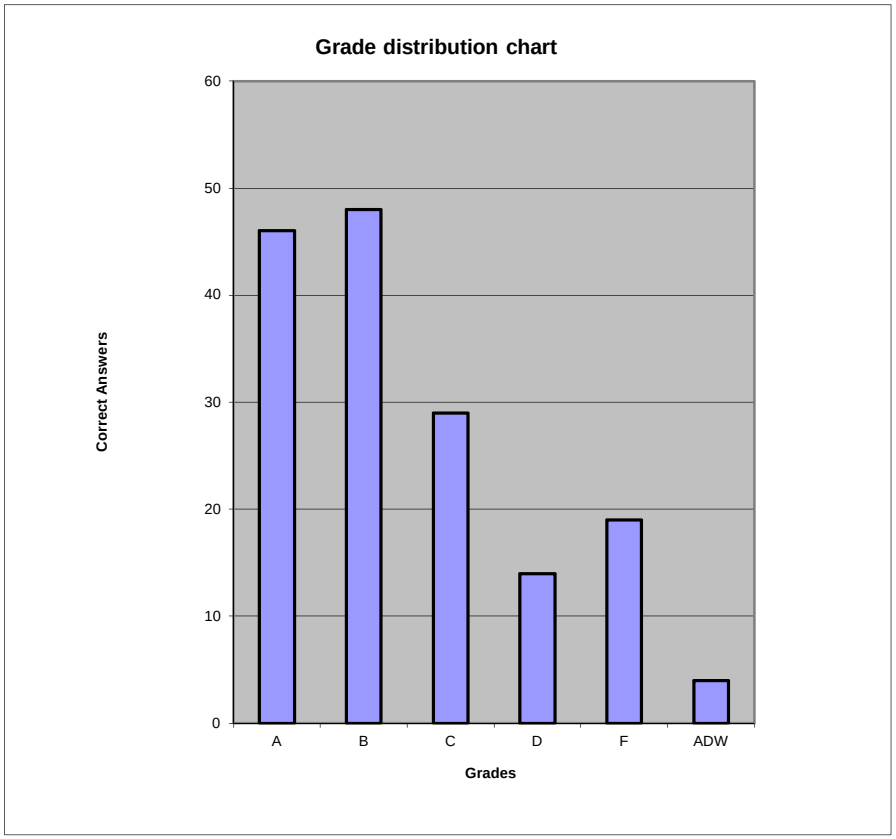


SP 2014 Math 207 - Grade Distribution chart

Table III

Grade	Frequency
A	46
B	48
C	29
D	14
F	19
ADW	4
WTH	41
Totals	201

Section	A	B	C	D	F	ADW	WTH	Totals
M 207AC	8	7	5	3	3	3	12	41
M 207BD	16	11	5	1	4	0	3	40
M 207EG	8	11	7	2	5	0	5	38
M 207FH	10	14	6	2	4	1	5	42
M 207 PR	4	5	6	6	3	0	16	40
TOTALS	46	48	29	14	19	4	41	201



FA 2014 Math 207 - Item Analysis

Section	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	#14	#15	#16	# 17	# 18	# 19	# 20	# 21	# 22	#23	#24	#25	Totals
M 207AC	22	13	23	18	16	22	12	22	13	20	24	15	23	17	20	23	20	11	11	18	16	8	19	15	13	26
M 207BD	26	26	29	26	25	26	26	23	23	27	26	16	27	16	23	25	22	33	22	26	27	17	18	22	19	33
M 207EG	26	23	22	25	25	22	24	20	24	22	1	16	16	19	22	16	11	19	20	21	15	22	14	15	15	26
M 207FH		25	25	18	23	25	24	20	18	28	25	11	23	24	23	21	21	14	17	24	22	17	19	18	22	30
M 207 PR																										
		3	4	3	4	5	4	4	3	4	5	4	3	4	4	5	3	4	4	4	3	2	4	4	2	5
TOTALS	74	90	103	90	93	100	90	89	81	101	81	62	92	80	92	90	77	81	74	93	83	66	74	74	71	120

FA 2014 Math 207 - Score Distribution

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 207AC	0	0	0	1	0	0	1	1	0	0	4	2	0	0	0	0	2	3	2	5	3	1	0	1	1	27
M 207BD	0	0	0	0	0	1	0	0	0	3	3	0	0	3	3	1	3	1	2	3	2	1	2	2	3	33
M 207EG	0	0	0	0	0	0	1	0	0	0	0	0	2	2	1	2	0	4	0	4	2	2	4	3	0	27
M 207FH		0	0	0	0	0	1	2	2	0	0	0	0	2	2	2	2	4	2	4	3	0	1	2	2	31
M 207 PR																										
TOTALS	0	0	0	1	0	1	3	3	2	3	7	2	2	7	6	5	7	12	6	16	10	4	7	8	6	118

DEPARTMENTAL ASSESSMENT REPORT

Department: Mathematics
Academic Year: **2014** Semester: **Spring**
Course Assessed: **Math 208** **Calculus and Analytic Geometry II**
No of Students Assessed: 76
Type of Assessment: **A 25-problems Test**

Course Coordinator: **Stan Buchcic**

ANALYSIS OF OVERALL RESULTS

1. Expected competency level: **40%**
2. How many students met the competency level? 73
3. What % of students met the competency level? 96%
4. No. of students enrolled in the course: 98
5. No. of students completing the final exam: 76
6. % of students completing the final exam: 78%
7. No. of students receiving a grade C or better: 75
8. % of students receiving a grade C or better: 99%
9. % of enrolled students passing with C or better: 77%
10. What objectives were not met by the majority of the students:
    All objectives were met by the majority of the students.
11. Was the assessment instrument adequate:
    Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured? Why not? Is it possible to make the instrument such that to measure all objectives?
    All objectives were measured.
13. Comments - Recommendations:

Objective # 1 Hyperbolic functions
Assessed by problem #1.
Number of correct answers: 59
% of correct answers: 78%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 2 Integration by parts
Assessed by problem # 2.
Number of correct answers: 45
% of correct answers: 59%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 3 Integration by partial fractions
Assessed by problem # 3.
Number of correct answers: 63
% of correct answers: 83%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 4 Improper integrals
Assessed by problem # 4.
Number of correct answers: 70
% of correct answers: 92%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 5 Trigonometric integrals
Assessed by problem # 5.
Number of correct answers: 67
% of correct answers: 88%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 6 Trigonometric substitutions
Assessed by problem # 6.
Number of correct answers: 45
% of correct answers: 59%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 7 Area between curves
Assessed by problem # 7.
Number of correct answers: 46
% of correct answers: 61%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 8 Volume of solids of revolution
Assessed by problem # 8.
Number of correct answers: 58
% of correct answers: 76%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 9 Arc length of plane curves
Assessed by problem # 9.
Number of correct answers: 62
% of correct answers: 82%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 10 Surface area of solids of revolution
Assessed by problem # 10.
Number of correct answers: 54
% of correct answers: 71%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 11 Work
Assessed by problem # 11.
Number of correct answers: 54
% of correct answers: 71%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 12 Sequences
Assessed by problem # 12.
Number of correct answers: 48
% of correct answers: 63%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 13. Geometric series, telescoping series, p series
Assessed by problem # 13.
Number of correct answers: 45
% of correct answers: 59%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 14 Convergence tests: Divergence test comparison, integral tests
Assessed by problem # 14.
Number of correct answers: 57
% of correct answers: 75%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 15 Convergence Tests- Alternating series - Absolute/conditional convergence
Assessed by problem # 15.
Number of correct answers: 56
% of correct answers: 74%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 16 Convergence tests - Ratio/root tests
Assessed by problem # 16.
Number of correct answers: 50
% of correct answers: 66%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 17 Radius of convergence of power series
Assessed by problem # 17.
Number of correct answers: 53
% of correct answers: 70%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 18 Taylor and Maclaurin series and polynomials and the Algebra and Calculus of power series
Assessed by problem # 18.
Number of correct answers: 51
% of correct answers: 67%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:
*

Objective # 19 Polar coordinates
Assessed by problem # 19.
Number of correct answers: 57
% of correct answers: 75%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 20 Equations in Polar coordinates
Assessed by problem # 20.
Number of correct answers: 59
% of correct answers: 78%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 21 Parametric Equations
Assessed by problem # 21.
Number of correct answers: 64
% of correct answers: 84%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 22 Area in Polar coordinates
Assessed by problem # 22
Number of correct answers: 72
% of correct answers: 95%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 23 Parabola
Assessed by problem # 23.
Number of correct answers: 55
% of correct answers: 72%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

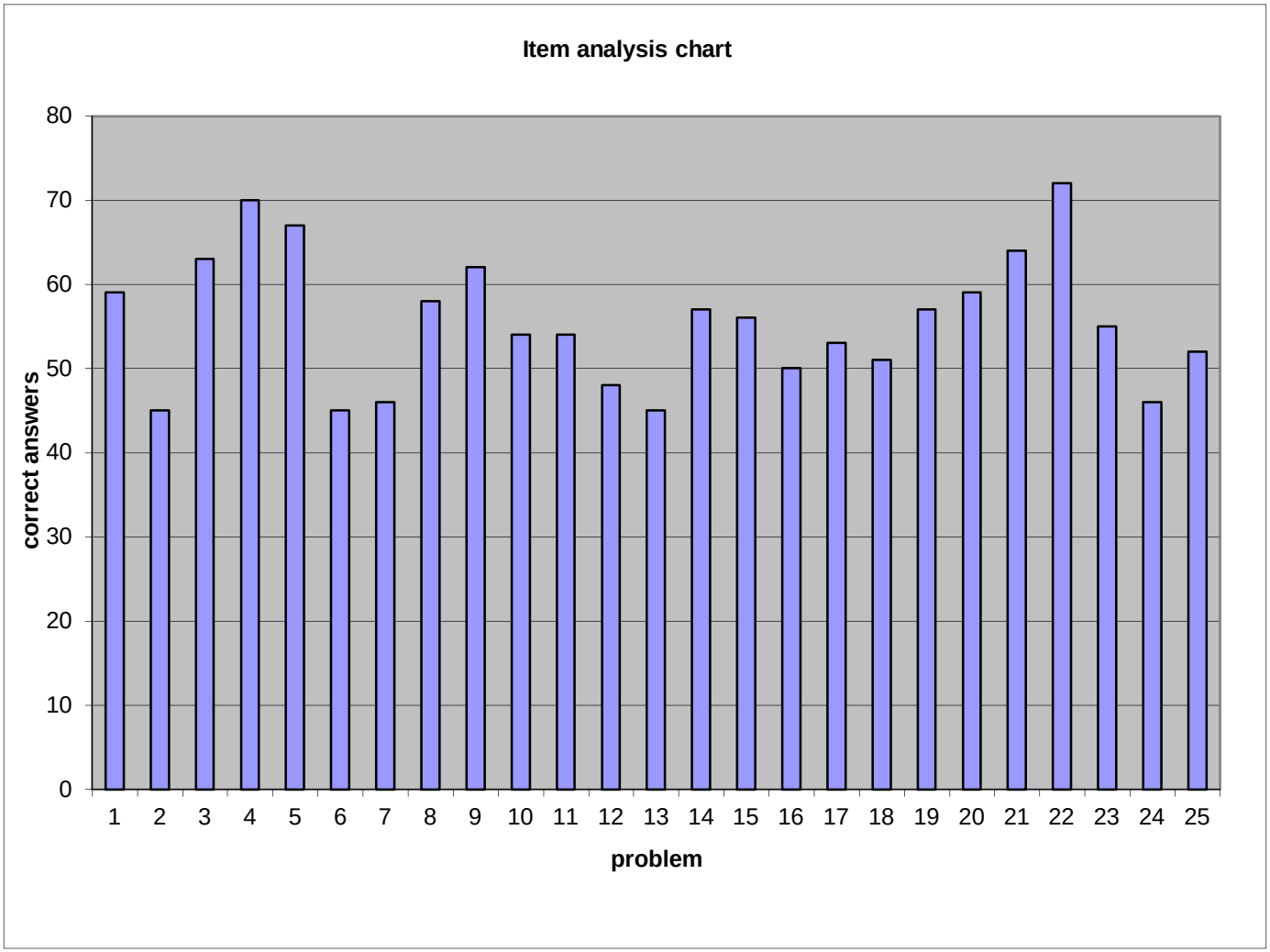
Objective # 24 Vertex of a parabola
Assessed by problem # 24.
Number of correct answers: 46
% of correct answers: 61%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 25 Ellipse
Assessed by problem # 25.
Number of correct answers: 52
% of correct answers: 68%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

SP 2014 Math 208 - Item analysis chart

Table I

Problems	Frequency
1	59
2	45
3	63
4	70
5	67
6	45
7	46
8	58
9	62
10	54
11	54
12	48
13	45
14	57
15	56
16	50
17	53
18	51
10	57
20	59
21	64
22	72
23	55
24	46
25	52

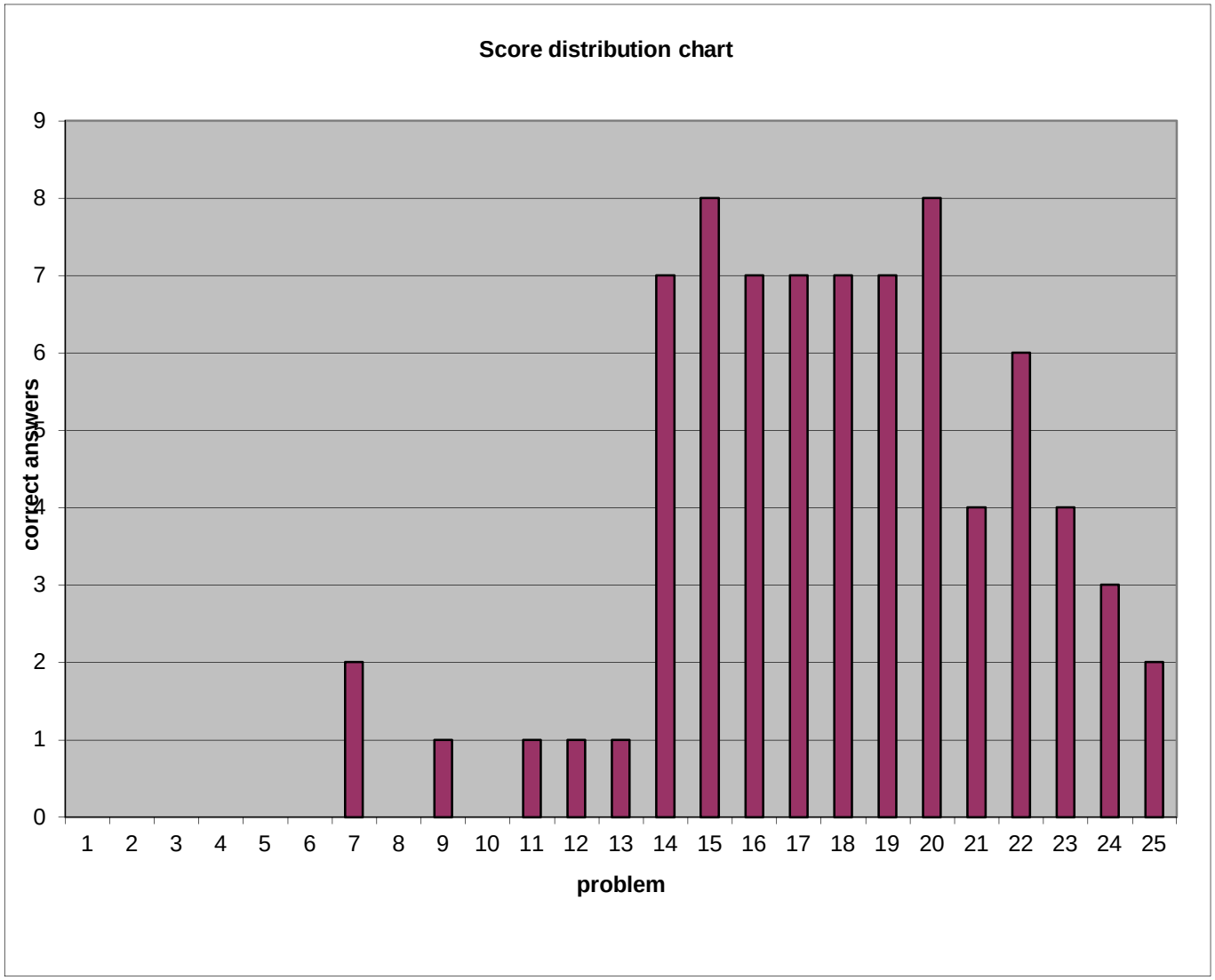


The above table indicates the number of correct answers for each problem of the assessment instrument.

SP 2014 Math 208 - Score Distribution chart

Table II

Problem	Score
1	0
2	0
3	0
4	0
5	0
6	0
7	2
8	0
9	1
10	0
11	1
12	1
13	1
14	7
15	8
16	7
17	7
18	7
19	7
20	8
21	4
22	6
23	4
24	3
25	2
Totals	76

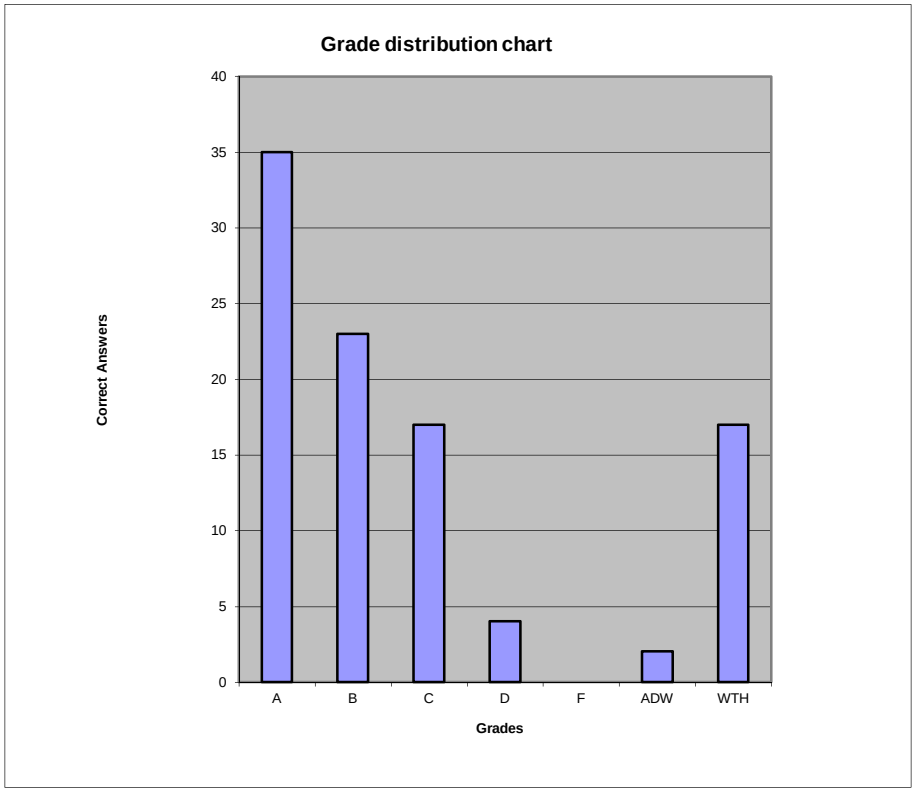


SP 2014 Math 208 - Grade Distribution chart

Table III

Grade	Frequency
A	35
B	23
C	17
D	4
F	0
ADW	2
WTH	17
Totals	98

Section	A	B	C	D	F	ADW	WTH	Totals
M 208 AC	16	10	2	1	0	1	4	34
M 208 BD	10	7	7	3	0	1	9	37
M 208 NP	9	6	8	0	0	0	4	27
TOTALS	35	23	17	4	0	2	17	98



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FA 2014 Math 208 - Item Analysis

Section	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	#14	#15	#16	# 17	# 18	# 19	# 20	# 21	# 22	# 23	# 24	#25	Class Size
M 208AC	26	19	23	26	25	23	16	23	21	18	20	21	17	25	26	23	27	27	25	26	24	28	13	18	20	26
M 208 BD	15	13	17	22	20	10	16	18	22	15	18	15	10	16	14	11	9	8	16	16	16	23	23	11	16	25
M 208NP	18	13	23	22	22	12	14	17	19	21	16	12	18	16	16	16	17	16	16	17	24	21	19	17	16	24
TOTALS	59	45	63	70	67	45	46	58	62	54	54	48	45	57	56	50	53	51	57	59	64	72	55	46	52	75

FA 2014 Math 208 - Score Distribution

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 208AC	0	0	0	0	0	0	0	0	0	0	O	O	0	1	2	3	1	3	3	2	0	4	4	3	2	28
M 208 BD	0	0	0	0	0	0	2	0	1	0	1	1	1	5	2	1	3	2	2	3	2	1	0	0	0	27
M 208NP	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	3	3	2	2	3	2	1	0	0	0	21
TOTALS	0	0	0	0	0	0	2	0	1	0	1	1	1	7	8	7	7	7	7	8	4	6	4	3	2	76

DEPARTMENTAL ASSESSMENT REPORT

Department: Mathematics
Academic Year: **2014** Semester: **Fall**
Course Assessed: **Math 209** **Calculus and Analytic Geometry III**
No of Students Assessed: 43
Type of Assessmer **A 24-problem final exam.**

Course Coordinator **Stan Buchcic**

ANALYSIS OF OVERALL RESULTS

1.	Expected competency level:	**40%**
2.	How many students met the competency level?	43
3.	What % of students met the competency level?	100%
4.	No. of students enrolled in the course:	59
5.	No. of students completing the final exam:	43
6.	% of students completing the final exam:	73%
7.	No. of students receiving a grade C or better:	59
8.	% of students receiving a grade C or better:	100%
9.	% of enrolled students passing with C or better:	100%

10. What objectives were not met by the majority of the students:
    All objectives were met by the majority of the students.
11. Was the assessment instrument adequate:
    Yes, the assessment instrument was adequate.
12. The attainment of which objectives, if any, were not measured? Why not? Is it possible to make the instrument such that to measure all objectives?
    All objectives were measured.
13. Comments - Recommendations:

Objective # 1 Convert the Polar equation in Cartesian form
Assessed by problem #1.
Number of correct answers: 35
% of correct answers: 81%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 2 Find the area of region in Polar coordinates
Assessed by problem # 2.
Number of correct answers: 40
% of correct answers: 93%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 3 Calculate Dot, Cross and Triple product for Vectors in 3 dimensions
Assessed by problem # 3.
Number of correct answers: 42
% of correct answers: 98%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 4 Find the parametric equations of the line in 3 dimensions
Assessed by problem # 4.
Number of correct answers: 35
% of correct answers: 81%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 5 Find the equation of the plane in 3 dimensions
Assessed by problem # 5.
Number of correct answers: 34
% of correct answers: 79%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 6 Identify the curve given in parametric form
Assessed by problem # 6.
Number of correct answers: 37
% of correct answers: 86%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 7 Identify the quadric surface
Assessed by problem # 7.
Number of correct answers: 34
% of correct answers: 79%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 8 Find the equation of the surface in cylindrical coordinates
Assessed by problem # 8.
Number of correct answers: 39
% of correct answers: 91%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 9 Find the arc length of the vector valued function
Assessed by problem # 9.
Number of correct answers: 13
% of correct answers: 30%
Did the majority of the students meet this objective: **NO**
Comments - Recommendations:

Objective # 10 Find the curvature of the vector valued function
Assessed by problem # 10.
Number of correct answers: 37
% of correct answers: 86%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 11 Find the acceleration of a particle moving along a curve page 4
Assessed by problem # 11.
Number of correct answers: 33
% of correct answers: 77%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 12 Find the partial derivative for a given function
Assessed by problem # 12.
Number of correct answers: 35
% of correct answers: 81%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 13. Use total differential to approximate the change in F(x,y) as (x,y) varies from P to Q
Assessed by problem # 13.
Number of correct answers: 39
% of correct answers: 91%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 14 Find the gradient of a function
Assessed by problem # 14.
Number of correct answers: 36
% of correct answers: 84%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 15 Find the equation of a tangent plane to the surface at a given point
Assessed by problem # 15.
Number of correct answers: 26
% of correct answers: 60%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 16 Evaluate the double integral
Assessed by problem # 16.
Number of correct answers: 30
% of correct answers: 70%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 17 Evaluate the triple integral
Assessed by problem # 17.
Number of correct answers: 31
% of correct answers: 72%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 18 Find the Jacobian
Assessed by problem # 18.
Number of correct answers: 25
% of correct answers: 58%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:
*

Objective # 19 Find the divergence of the vector field
Assessed by problem # 19.
Number of correct answers: 36
% of correct answers: 84%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 20 Evaluate the line integral
Assessed by problem # 20.
Number of correct answers: 33
% of correct answers: 77%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 21 Find the potential function for a conservative vector field
Assessed by problem # 21.
Number of correct answers: 32
% of correct answers: 74%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 22 Find the flux integral
Assessed by problem # 22
Number of correct answers: 33
% of correct answers: 77%
Did the majority of the students meet this objective: **Yes**
Comments - Recommendations:

Objective # 23 Evaluate the integral using Green's Theorem
Assessed by problem # 23.
Number of correct answers: 26
% of correct answers: 60%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

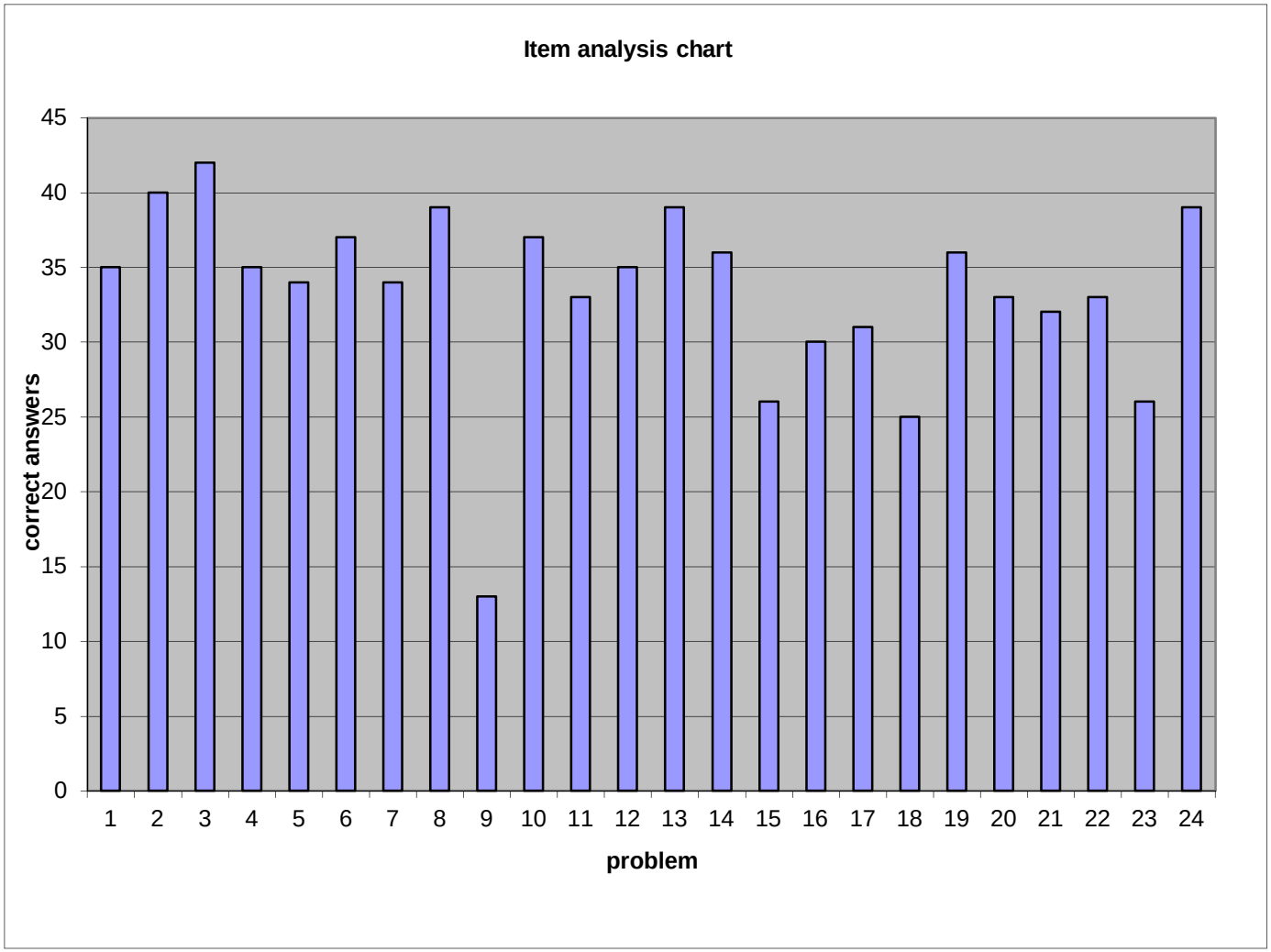
Objective # 24 Use Divergence theorem to find the flux integral
Assessed by problem # 24.
Number of correct answers: 39
% of correct answers: 91%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

Objective # 25
Assessed by problem # 245
Number of correct answers: 35
% of correct answers: 81%
Did the majority of the students meet this objective: **YES**
Comments - Recommendations:

FA 2012 Math 209 - Item analysis chart

Table I

Problems	Frequency
1	35
2	40
3	42
4	35
5	34
6	37
7	34
8	39
9	13
10	37
11	33
12	35
13	39
14	36
15	26
16	30
17	31
18	25
10	36
20	33
21	32
22	33
23	26
24	39
25	35

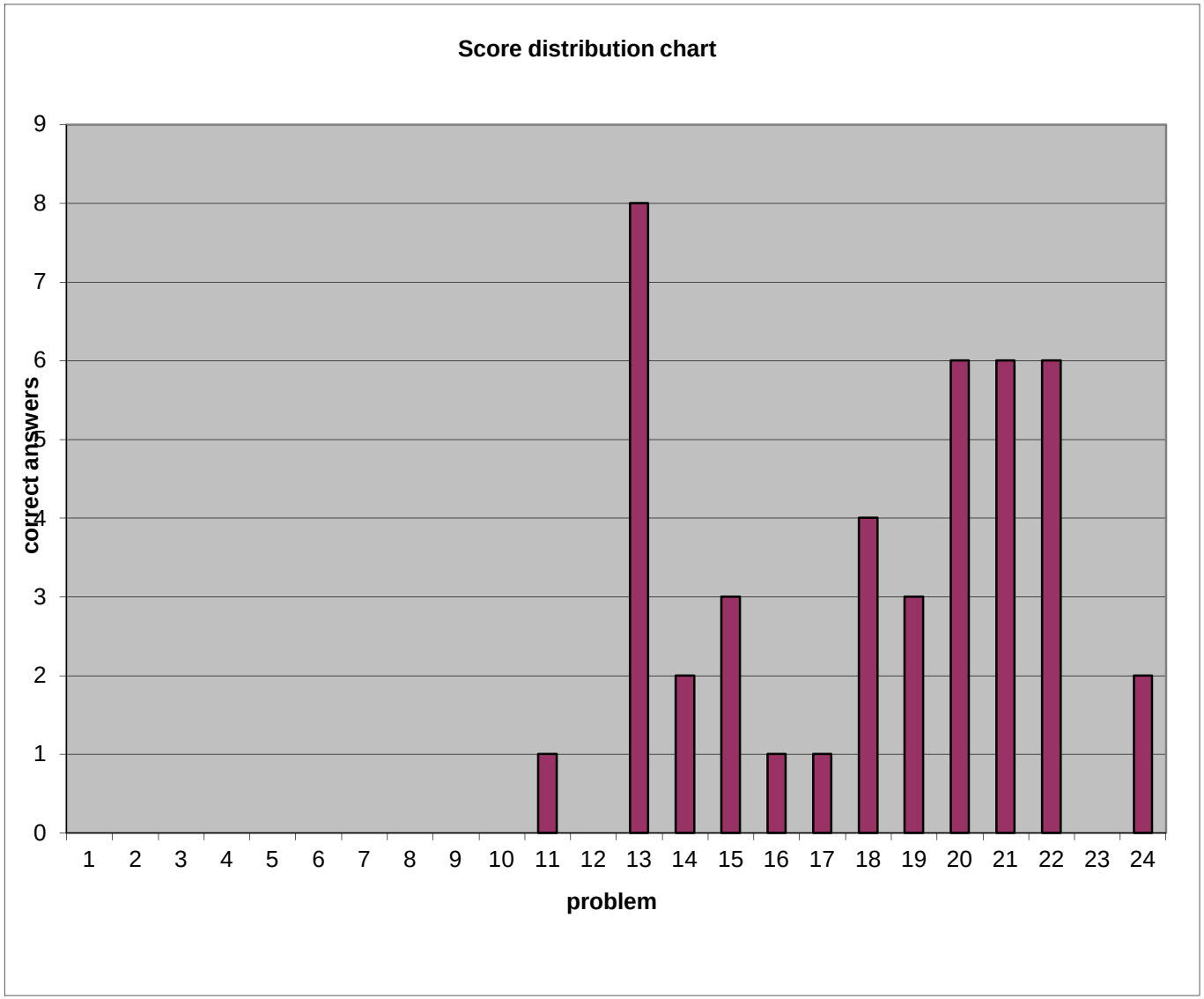


The above table indicates the number of correct answers for each problem of the assessment instrument.

FA 2012 Math 209 - Score Distribution chart

Table II

Problem	Score
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	1
12	0
13	8
14	2
15	3
16	1
17	1
18	4
19	3
20	6
21	6
22	6
23	0
24	2
25	0
Totals	43

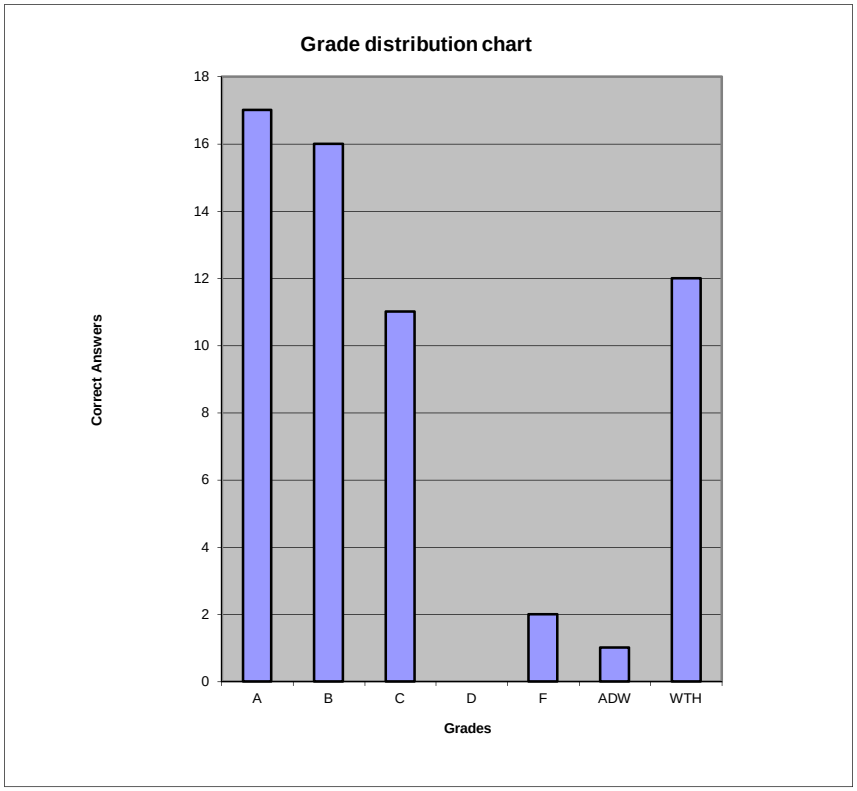


FA 2012 Math 209 - Grade Distribution

Table III

Grade	Frequency
A	17
B	16
C	11
D	0
F	2
ADW	1
WTH	12
Totals	59

Section	A	B	C	D	F	ADW	WTH	Totals
M 209BD	10	7	8	0	1	0	10	36
M 209MO	7	9	3	0	1	1	2	23
TOTALS	17	16	11	0	2	1	12	59



FA 20124Math 209 - Item Analysis

Section	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10	# 11	# 12	# 13	#14	#15	#16	# 17	# 18	# 19	# 20	# 21	# 22	# 23	# 24	#25	Class Size
M 209BD	20	23	23	19	19	21	17	20	8	21	18	21	23	21	15	16	15	14	21	16	19	18	14	20	20	25
M 209 MO	15	17	19	16	15	16	17	19	5	16	15	14	16	15	11	14	16	11	15	17	13	15	12	19	15	19
TOTALS	35	40	42	35	34	37	34	39	13	37	33	35	39	36	26	30	31	25	36	33	32	33	26	39	35	44

FA 2014 Math 209 - Score Distribution

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Totals
M 209BD	0	0	0	0	0	0	0	0	0	0	1	0	6	1	1	1	0	3	1	3	3	4	0	1	0	25
M 209MO	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2	0	1	1	2	3	3	2	0	1	0	18
TOTALS	0	0	0	0	0	0	0	0	0	0	1	0	8	2	3	1	1	4	3	6	6	6	0	2	0	43