A ROAD TO GREATER INDEPENDENCE JACQUES MASURET



OUTLINE

- 1) Setting context
- 2) Problem identification
- 3) Possible reasons
- 4) Possible causes
- 5) Action plan
- 6) Results
- 7) Conclusion

MATHEMATICS 186 – SEMESTER 1

• All assessment opportunities are **compulsory**.

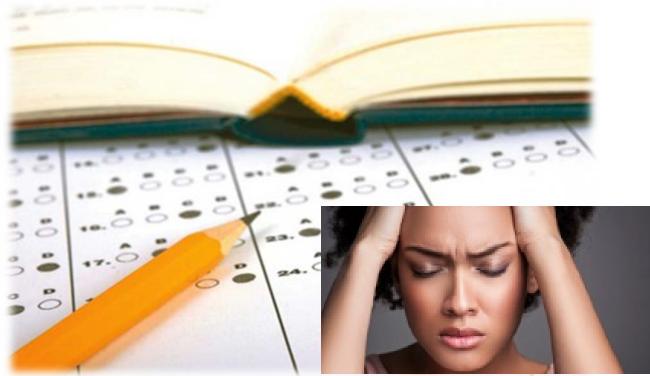
- 1) Online quizzes weekly
- 2) Tutorials and Tutorial tests weekly
- 3) Early Assessment Test (Test 1)
- 4) Semester Test (Test 2)
- 5) Exam (Test 3)



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PROBLEM IDENTIFICATION

- Lecturers have noted the weak performance of a substantial number of 2nd year students
- Dependency on memoranda

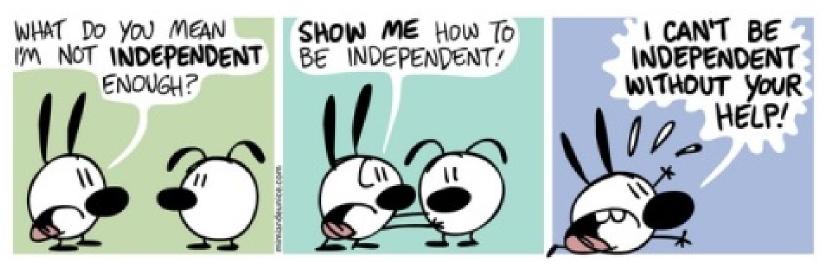


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POSSIBLE REASONS

• Students lack academic independence

• Students have superficial content knowledge



Mimi and Eunice – Becoming Independent – <u>http://mimiandeunice.com</u>

POSSIBLE CAUSES

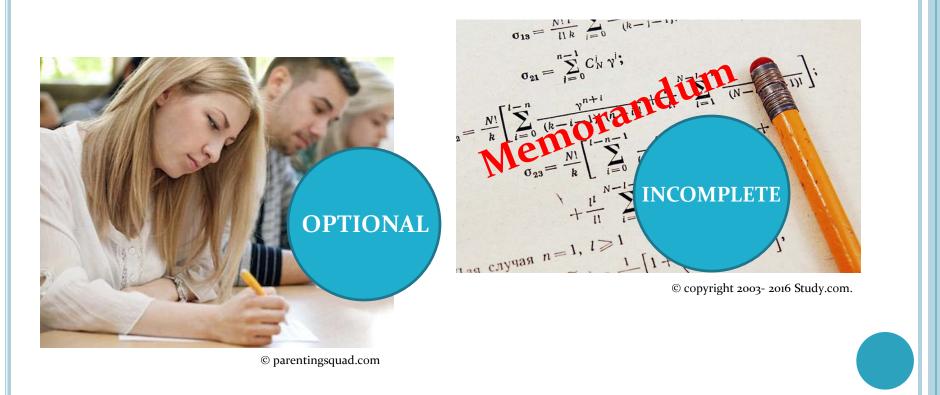
- Mandatory assessment that leads to assessmentdependent learning
- Complete memoranda have been readily available



Sumber Gambar http://www.sodahead.com-

ACTION PLAN (AP)

Many assessment opportunities are optional
Provide incomplete memoranda



AP - MATHEMATICS 186: SEMESTER 2

- 1) No online quizzes
- 2) Tutorials and Tutorial tests optional
- 3) Early Assessment Test optional
- 4) Semester Test (Test 4) mandatory
- 5) Exam (Test 5) mandatory



www.i-l-m.com

AP PROCESS

• Communication is vital

- Explain the process in detail
- Motivation and reasoning
- Positives and negatives

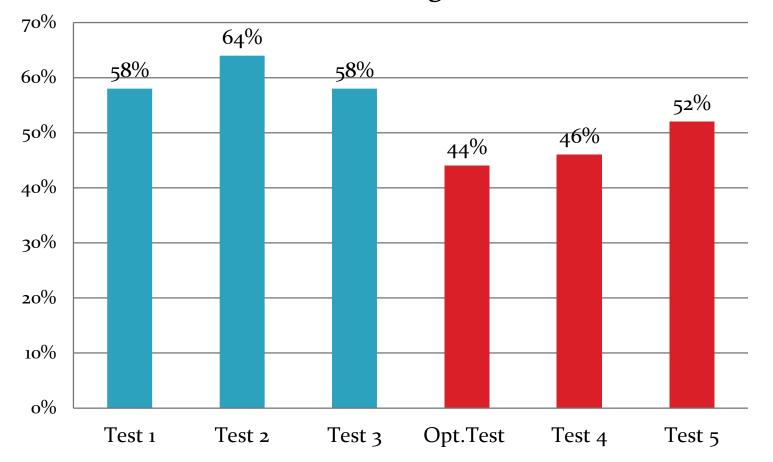
• Motivation

- Provide regular support
- Ask a student from the previous year to come and talk to the current students



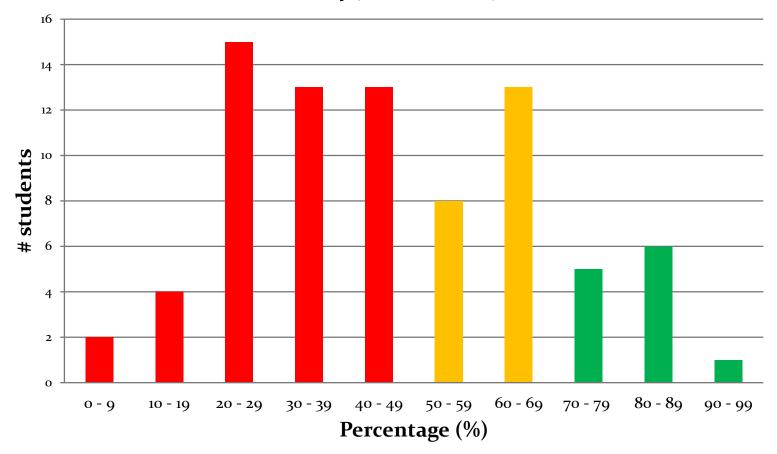


RESULTS



Test averages

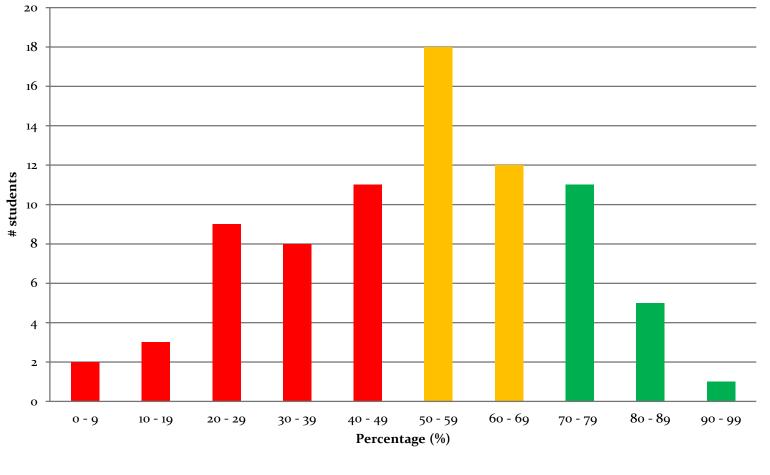
TEST 4 (80 students)



Average: 45.6%

<50%: 47 students

TEST 5 (80 students)



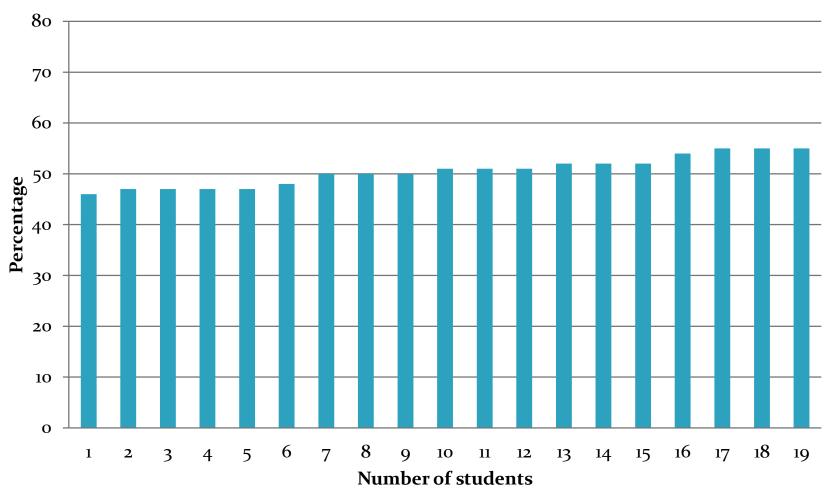
Average: 51.8%

<50%: 33 students

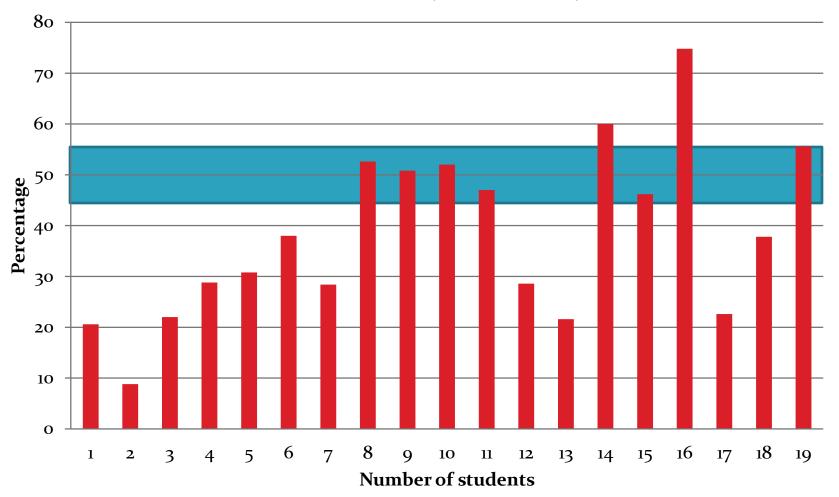
SEMESTER 1 vs SEMESTER 2

	Semester 1	Semester 2
# Students	83	80
1) Average	59%	49%
≥ 50%	67 (84%)	44 (55%)
2) Increase in %		17 (21%)
≥ 50%		16 (94%)
3) At risk students	19 (23%)	
≥ 50%		6 (8%)

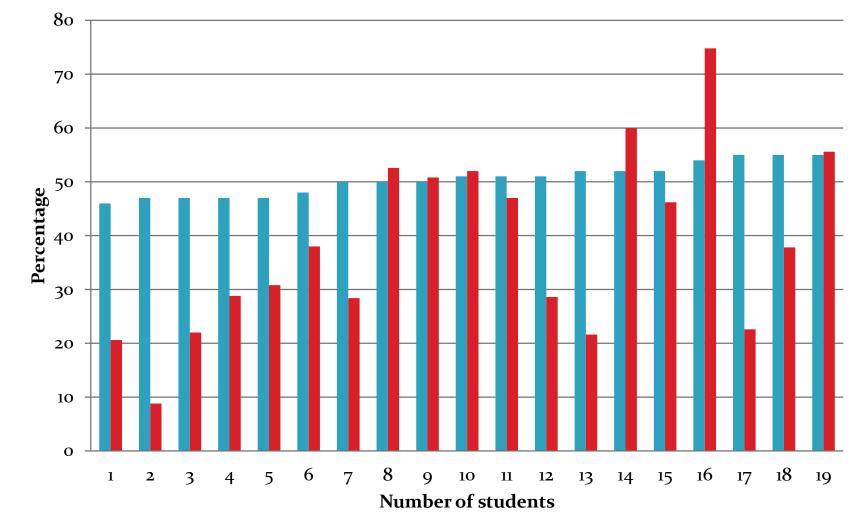
At risk students (1st semester)



At risk students (2nd semester)

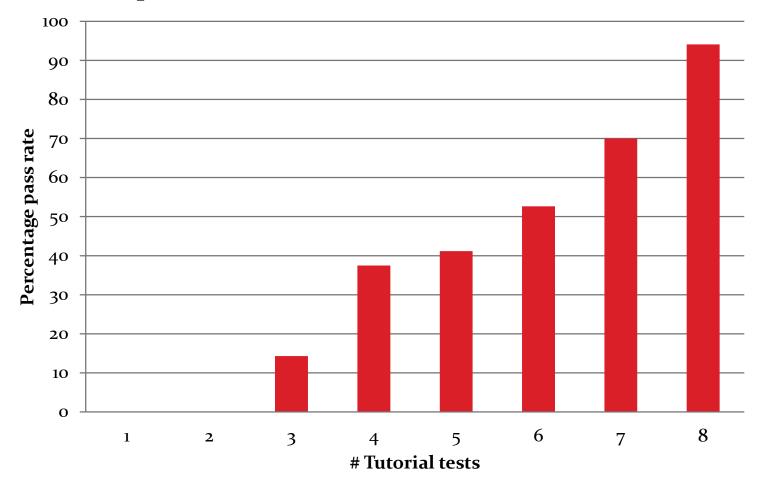


At risk students



TUTORIAL TESTS (2ND SEMESTER)

# TUTORIAL TESTS	ATTENDANCE	AVERAGE	# STUDENTS	≥ 50 %	PERCENTAGE
1	74 (93%)	46%	1	0	o%
2	79 (99%)	57%	1	0	o%
3	78 (98%)	55%	7	1	14%
4	68 (85%)	61%	8	3	38%
5	60 (75%)	58%	17	7	41%
6	57 (71%)	66%	19	10	53%
7	20 (25%)	65%	10	7	70%
8	30 (38%)	49%	17	16	94%



% pass rate of students who wrote Tutorial Tests

CONCLUSION

• This model requires

- Communication
- Motivation
- Support
- This model seeks to provide
 - Greater academic independence
 - Deeper understanding
 - Less administration
- Room for improvement
 - Greater support for the at-risk students

