

**Math 131- What does 10%, 15%, 20% mean?**

A Grade Computation Activity to Encourage Daily Work

**Complete all of the following “what if” scenarios using the chart below**

The Intermediate Algebra grade is computed using the following weighted averages:

<b>Category</b>	<b>Weight</b>	<b>Computation</b>
Exams	→ 50%	average * (0.5) +
Final	→ 25%	grade * (0.25) +
Competency Exams	→ 10%	grade (either a 0 or a 100) * (0.1) +
Daily Grades*	→ 15%	average * (0.15) = final course grade

\*Your Daily Grade Average includes: homework's, quizzes, projects, attendance, tutoring, etc

**Part 1: Analyze the following scenarios:**

- What is your final grade if your exam average is 78%, homework/quiz average is 84%, your competency exam was a 90%, and you make a 64% on the final?
- What is your final grade if your exam average is a 75%, homework/quiz average is an 92%, your competency exam was an 50%, and you earned a 74% on the final exam?
- Your exam average is a 62%, homework/quiz average was an 85%, and your competency exam was an 70%.
  - What must you make on the final to pass the course? (If the score is above a 100%, then it is impossible for you to pass the course)*
  - Suppose you had studied more, you got help/tutoring from the MathLab, and then retook the Comp Exam. This time you earned an 100%. In order to pass the course, what must you earn on the final exam?

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4. Your exam average is 90% and you make a 90% on the final exam, but you did not complete the competency exam nor do any of your homework/quizzes

a. What is your course average?

b. What would have been your course average if you earned a 80% on the Comp Exam?

c. What would have been your course average if you earned a 90% on the Comp exam and had a 50% for daily work?

**Part 2: Now assume you earned the following grades:**

Exam 1: 48%, Exam 2: 60%, Exam 3: 52%, Exam 4: 78% Homework average: 84% Quiz average: 79%

Project 1: 85%, Project 2: 90%, Project 3: 92%, Project 4: 100% Attendance & Tutoring: 90% Comp Exam: 90%

5. a. What is your exam average?

b. What is your daily grade average?

6. What must you earn on the final exam to pass the course with a 70% or higher?

7. What must you earn on the final exam to earn a B in the course?

8. What must you earn on the final exam to earn an A in the course?

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*\*The class policy is that your lowest exam grade will be replaced with the grade you earn (from that exam section) on your final exam.\**

9. Suppose you earn a 75% on the final exam and your grade breakdown for each exam section on the final exam is as follows: Exam 1: 80% Exam 2: 65% Exam 3: 72% Exam 4: 83%

- a. What is your overall course average, before anything is replaced?
- b. Which original exam will be replaced?
- c. What your new exam average and how does it compare to the original exam average?
- d. What is your new overall course average and how does it compare to the original course average?

10. Suppose instead you earn a 65% on the final exam and your grade breakdown for each exam portion on the final exam is as follows: Exam 1: 60% Exam 2: 55% Exam 3: 73% Exam 4: 72%

- a. What is your overall course average, before anything is replaced?
- b. Which original exam grade will be replaced?

