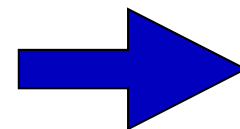


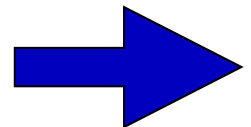
University of Hawaii
Maui College

Math Discipline Meeting
April 2, 2011
Honolulu CC



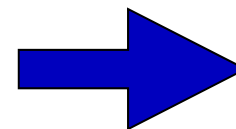
From Then To Now...Our Developmental Math Redesign

- 1 computer classroom \longrightarrow 2 computer classrooms + a math computer lab
- 4 levels of Dev. Math \longrightarrow 2 levels
- 2 years to get through Dev. Math \longrightarrow 1 year to get through
 » + extra if needed!



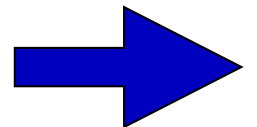
How Does It Work?

- All homework assignments, all quizzes, and all exams are done on the computer in a program called MyMathLab
- Students must attend their class which meets once per week for 1hr. 15min.
- Students must spend at least one hour/week in the Math Lab
- Course Calendar to follow to stay on pace
- Only deadline is the last day of the semester



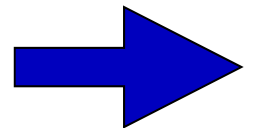
How Does It Work?

- Each HW assignment must be passed with at least 90%
- Quizzes, tests must be passed with at least 70% and are password protected so are proctored!
- Videos are pre-requisites for homework
 - Students **MUST WATCH** videos **BEFORE** they gain access to homework questions
- Unlimited opportunities to achieve mastery
- We give no incompletes
- Student Organizer - Due before the exam
- 24 hr/day ability to communicate with ⁴



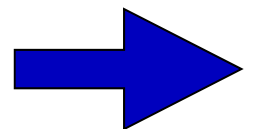
Obstacles We've Encountered

- 15-20% of students are not participating
- Some do not come to class or lab (We take attendance.)
- Some do not sign up for My Math Lab access to do the work immediately
- Many do not put in time (We see the amount of time they are working)
- Students do not respond (Or even read??) the many e-mails that instructors send.
- Students blame financial aid for late access to My Math Lab (we are working on a solution for this)



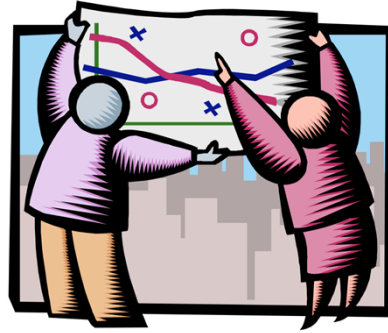
Our Head Start Math Class

- MATH82 class for students who finish MATH18 before the end of the semester.
 - They can begin working on MATH82 coursework without registering/paying for the class or a new book.
 - Their work will be imported next semester!

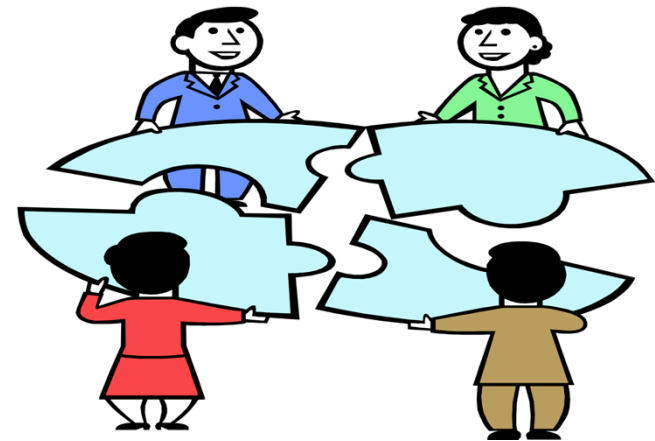


Changes We Are Actively Discussing

- Increasing the homework minimum percentage to 90%
- Pre-requisite reading/computer literacy level
- MyLabsPlus



Results and Impact on Student Success Data

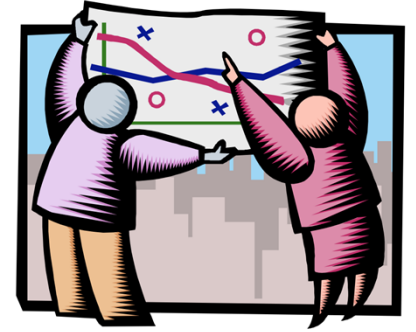


Historical Completion

MATH 1 and 22 vs. MATH18

and

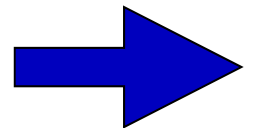
MATH 23 and 25 vs. MATH82



- Each course took 1 semester, so sequence took at least 2 semesters
- **The % of students completing the redesign course (18/82) in one semester is as good or better than the % completing comparable courses (1&22 or 23&25) in 2 or more semesters.**

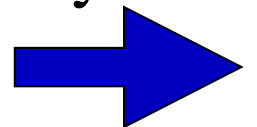
What Lessons Have We Learned and What Advice Would We Give?

- Be on top of students
- Constant communication with students and each other
- Keep a list of things to improve as they pop up
- **YOU NEED A STRONG TEAM!**
 - team decisions
 - listen to others' input
 - share ideas



What Lessons Have We Learned and What Advice Would We Give?

- Always be open to change for the good
- We've seen a vast improvement from last semester (our first try with the redesign) to this semester in:
 - apparent student success
 - clarity of day 1 directions, policies, & procedures aids in getting off to a smooth start
 - Word of Mouth among students goes a long way



What Lessons Have We Learned and What Advice Would We Give?

- Think hard about what book to use as you will stick with it for years.
 - Same book for all developmental levels to cut cost for students
- Must have a **STRONG** syllabus agreement
- Send an email about 1 week prior to the first day of classes including:

Beginning of Semester Email

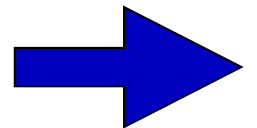
- Student must attend day 1
- must have textbook and access code day 1
- syllabus and syllabus agreement
- course calendar (a pacing guide)
- post all of the above in Laulima

Added Benefits

- Students become self-motivated learners
- Students take responsibility for own success
- Students realize the negative effects of procrastination and challenge themselves to stay on pace
- Many students discovered that **they can learn math** when they never thought they could

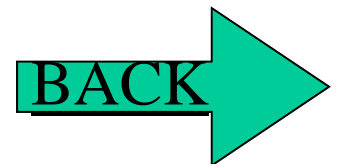
How Does MyMathLab Work?

- Unlimited opportunities to gain mastery of each topic
- 45+ hours/wk. access to the UHMC [Math Computer Lab!](#)
- Not only can students ask their instructors questions in class, they can also access help in a variety of ways when from home!
- What are those ways? (Click the links below)
 - [Help Me Solve This](#)
 - [Videos](#)
 - [Student Organizer](#)
 - [Animations](#)
 - [Textbook](#)
 - [Ask My Instructor](#)



The Math Lab - Kupa'a 203

- There will always be AT LEAST 2 math instructors in the lab, ready to help you, at all times!
- 48 computers
- Open more than 45 hours per week! (M-Th from 9:00-7:30, F from 9-1:30)
- Air Conditioned and quiet



Help Me Solve This Click Here

Exercise Score: 0 of 1 pt Assignment Score: 4% (1 of 25 pts) 1 of 25 complete

Question 9.5.23

Solve $W = 2rg^4 - 3rz$ for z .

$z =$

(Use integers or fractions for any numbers in the expression)

Help Me Solve This

Textbook

Video

Animation

Ask My Instructor

Print

Help Me Solve This

Solve $W = 2rg^4 - 3rz$ for z .

Solving Equations for a Specified Variable

Step 1: Clear the equation of fractions by multiplying each side of the equation by the least common denominator.

Step 2: Use the distributive property to remove grouping symbols such as parentheses.

Step 3: Combine like terms on each side of the equation.

Step 4: Use the addition property of equality to rewrite the equation as an equivalent equation with terms containing the specified variable on one

BACK

Videos

Click Here

Question 9.5.23

Exercise Score: 0 of 1 pt Assignment Score: 4% (1 of 25 pts) 1 of 25 complete

Solve $W = 2rg^4 - 3rz$ for z .

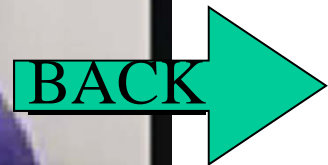
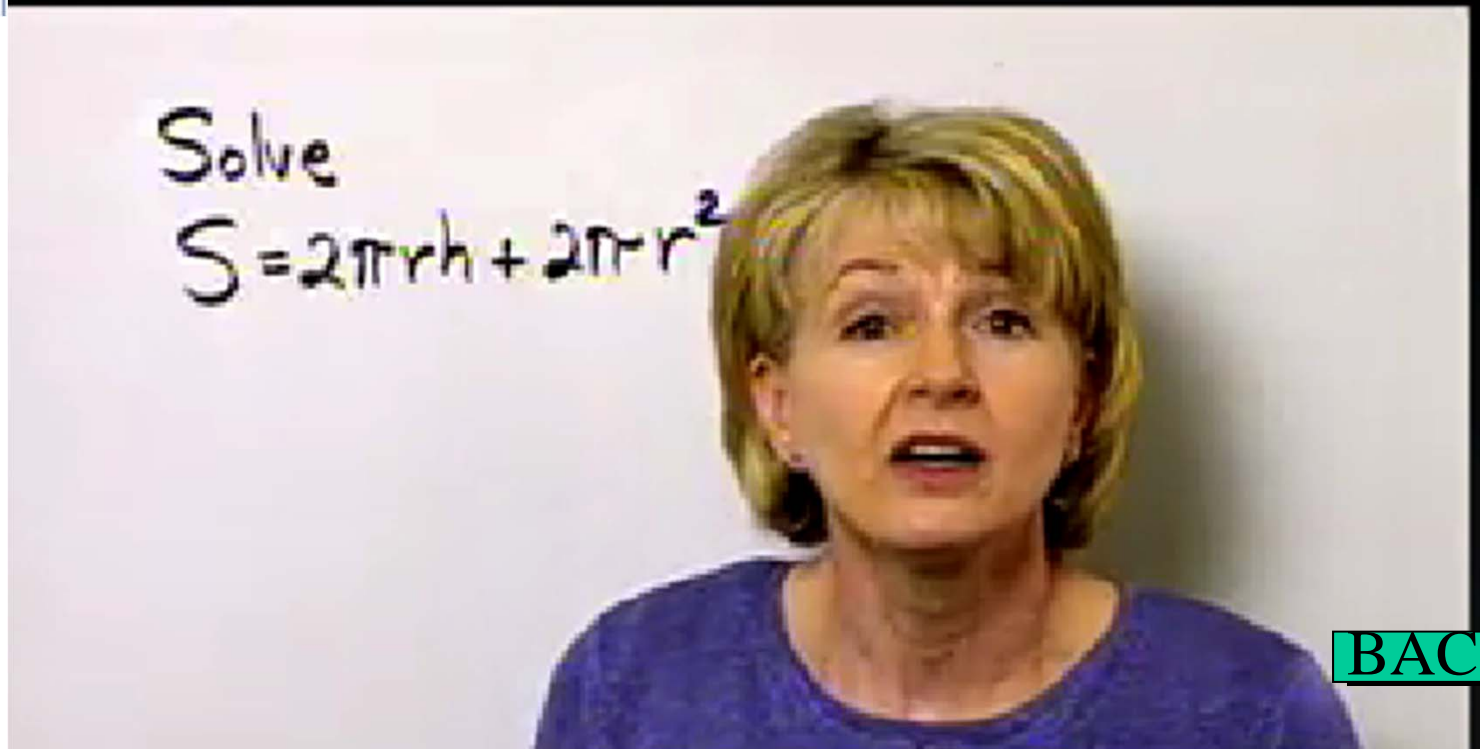
$z =$

(Use integers or fractions for any numbers in the expression)

Help Me Solve This
Textbook
Video
Animation
Ask My Instructor

Pearson Video Player

Solve
 $S = 2\pi rh + 2\pi r^2$



Animations

Click Here

Question 9.5.23

Exercise Score: 0 of 1 pt Assignment Score: 4% (1 of 25 pts) 1 of 25 complete

Solve $W = 2rg^4 - 3rz$ for z .

$z =$

(Use integers or fractions for any numbers in the expression)

Help Me Solve This
Textbook
Video
Animation
Ask My Instructor
Print

■ Example

Solve each formula for the specified variable.

a.) $V = \frac{1}{3} ah$ for h . b.) $A = P + PRT$ for R .

■ Approach

To solve an equation or formula for a specified variable, use the same 5-step process for [solving a linear equation](#).

BACK

Textbook

Click Here

Navigation: << < 1 2 3 4 5 6 7 8 9 10 > >>

Question 9.5.23

Exercise Score: 0 of 1 pt Assignment Score: 4% (1 of 25 pts) 1 of 25 complete

Solve $W = 2rg^4 - 3rz$ for z .

$z =$

(Use integers or fractions for any numbers in the expression)

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PEARSON

Elayn Martin-Gay
Prealgebra & Introductory Algebra, Third Edition

Chapter 9: Equations, Inequalities, and Problem Solving: 9.5 Form... Back 680 Forward Search Print

Contents

Objectives

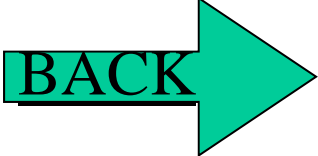
- A Use Formulas to Solve Problems.
- B Solve a Formula or Equation for One of Its Variables.

9.5 FORMULAS AND PROBLEM SOLVING

Objective A Using Formulas to Solve Problems

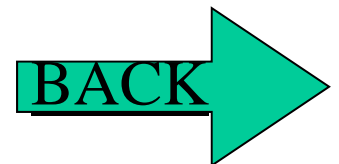
A **formula** describes a known relationship among quantities. Many formulas are given as equations. For example, the formula

$$d = r \cdot t$$

BACK 

Student Organizer

- The Student Organizer which came with the textbook has:
 - Examples
 - “You Try”
 - Chapter study guides
- This Student Organizer counts toward students’ grades...what a great tool for success!



Ask My Instructor [Click Here](#)

Exercise Score: 0 of 1 pt Assignment Score: 4% (1 of 25 pts) 1 of 25 complete

Solve $W = 2rg^4 - 3rz$ for z .

$z =$

(Use integers or fractions for any numbers in the expression)

Ask My Instructor [Legend](#)

To:

From:

Section 9.4, Question: 9.4.51

Solve problems involving relationships among unknown quantities.

Enter a question or comment to send. (A link to the question will be included with your message.)

