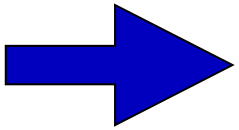
University of Hawaii
Maui College

Math Discipline Meeting
April 2, 2011
Honolulu CC



From Then To Now...Our Developmental Math Redesign

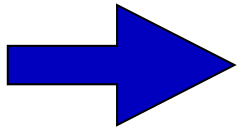
- 1 computer classroom ⟶ 2 computer classrooms + a math computer lab

- 4 levels of Dev. Math ⟶ 2 levels

- 2 <u>years</u> to get through Dev. Math ⟶ 1 year to get through
  - » + extra if needed!

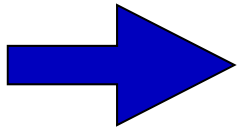
How Does It Work?

- 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



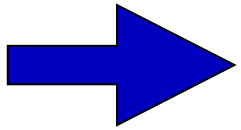
How Does It Work?

- 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



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)

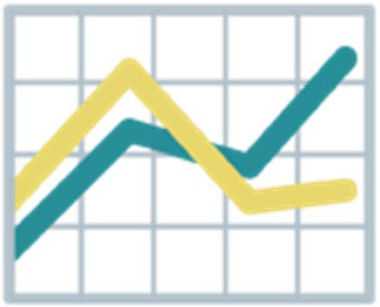


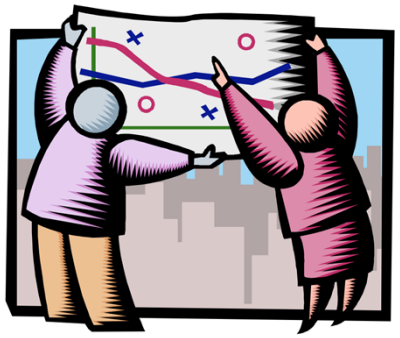
Our Head Start Math Class

- 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!

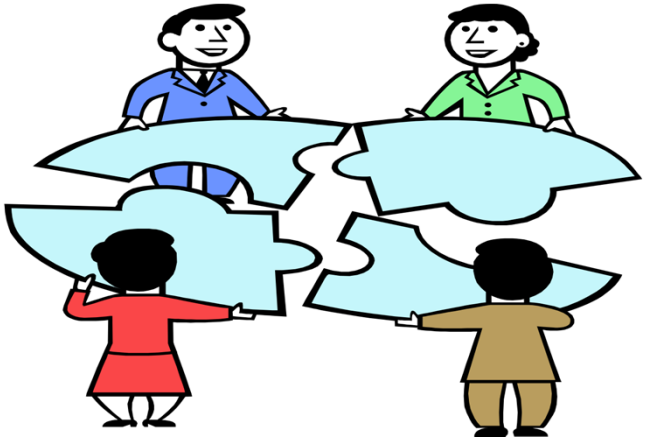
Changes We Are Actively Discussing

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

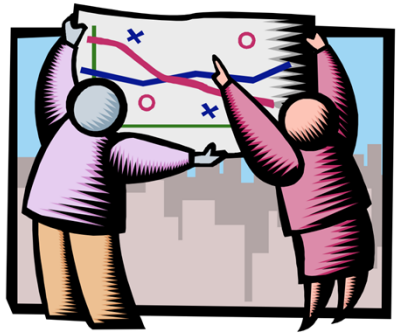




Results and Impact on Student Success Data



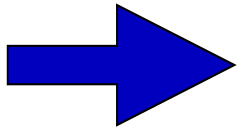
Historical Completion
MATH 1 and 22 vs. MATH18
and
MATH 23 and 25 vs. MATH82



- 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

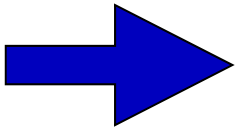
Added Benefits

- 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

THE END

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 - Animations
  - Videos - Textbook
  - Student Organizer - Ask My Instructor



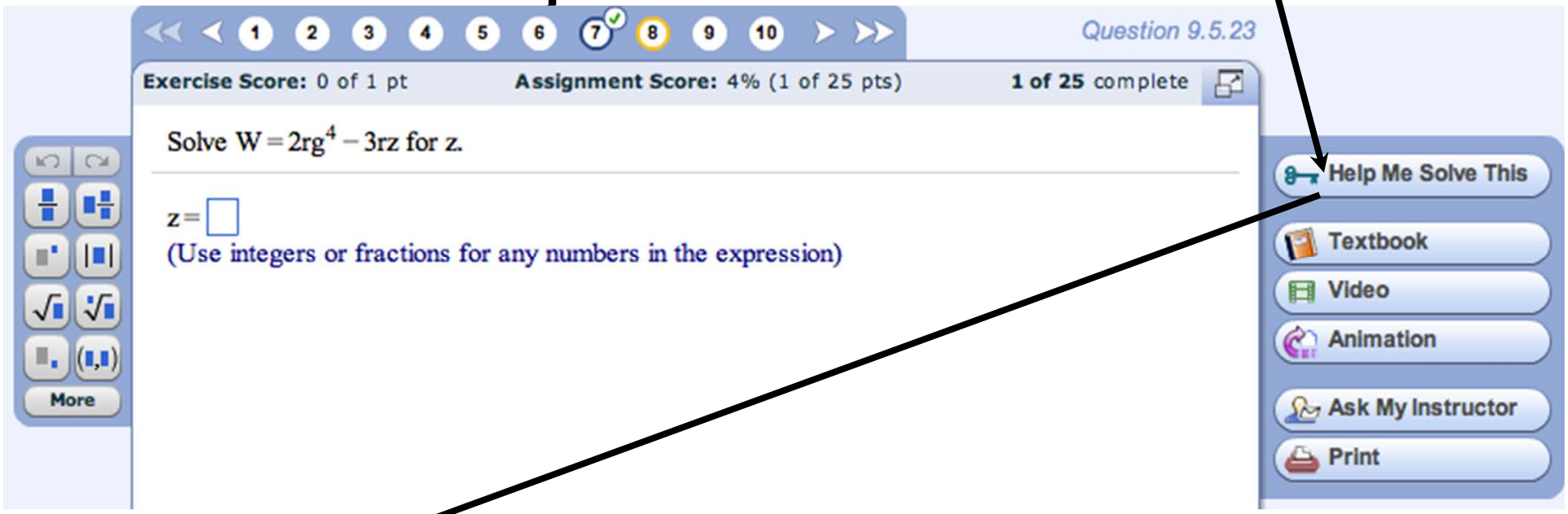
The Math Lab - Kupa'a 203

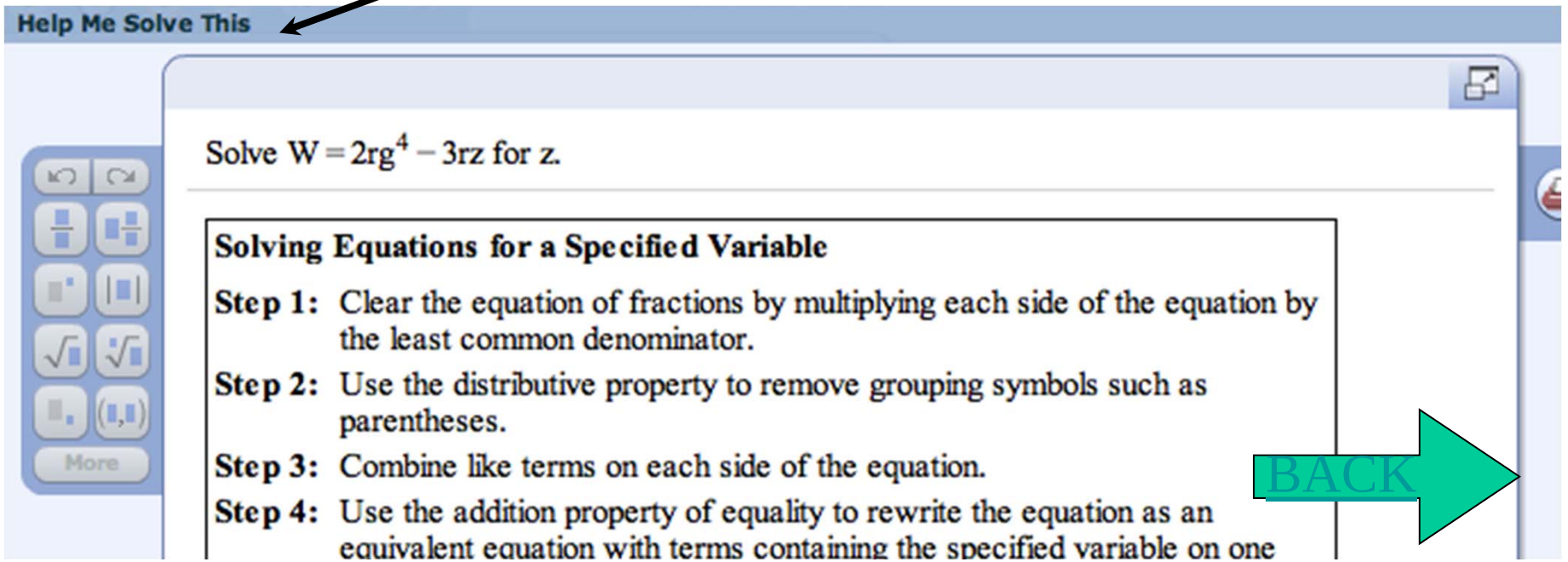
- There will always be AT LEAST 2 math instructors in the lab, ready to help you, at all times!
- 48 computers
- Open more than 45 hours per week! (M-Th from 9:00-7:30, F from 9-1:30)
- Air Conditioned and quiet

BACK

Help Me Solve This

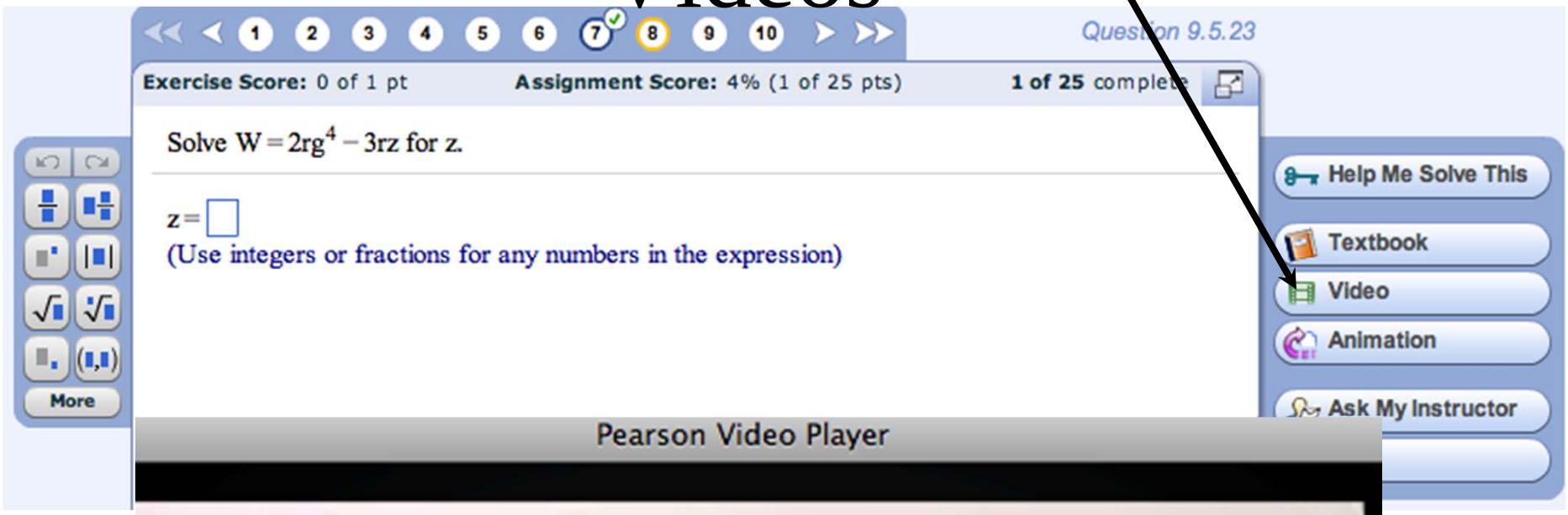
Click Here

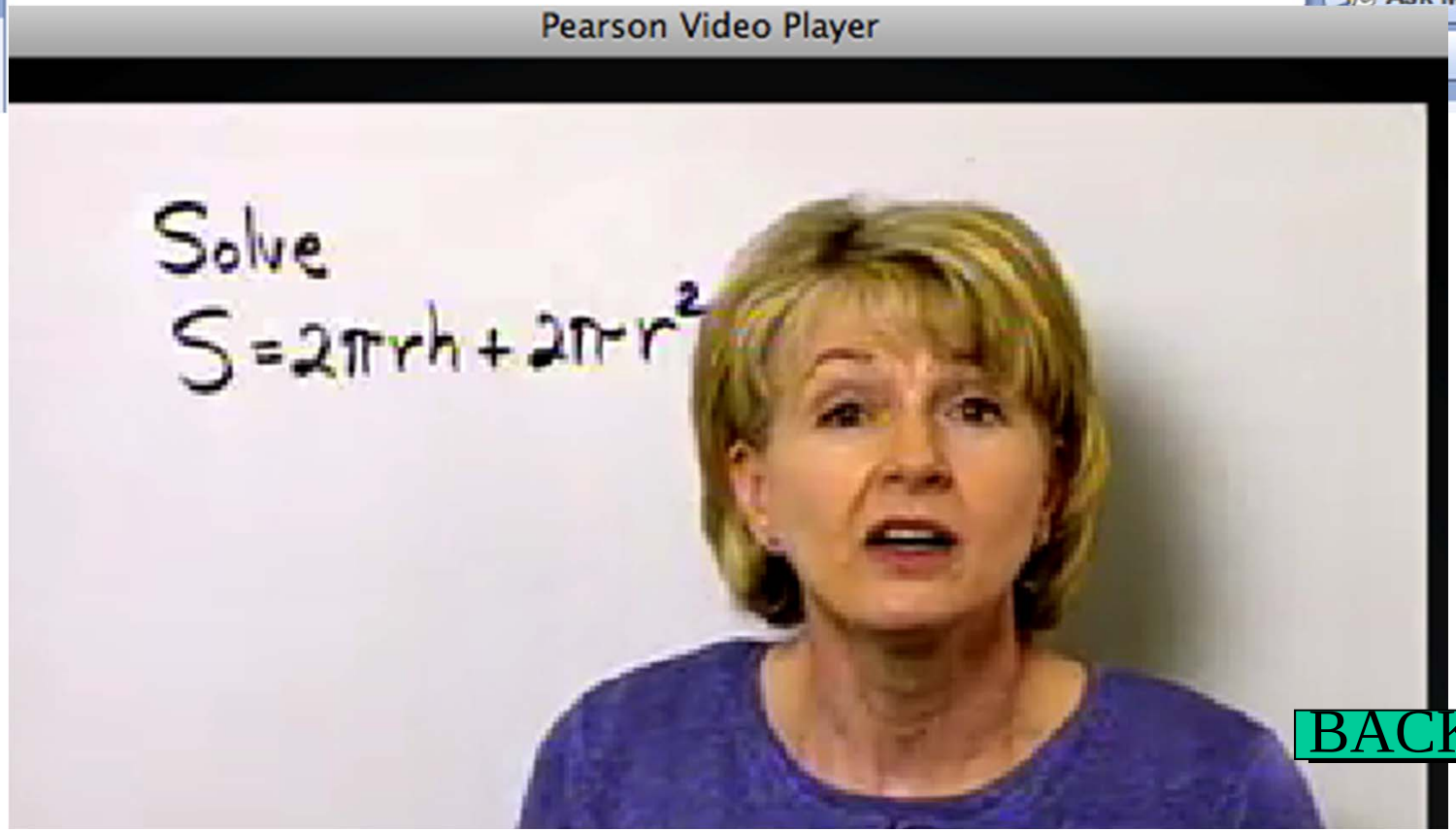




Videos

Click Here

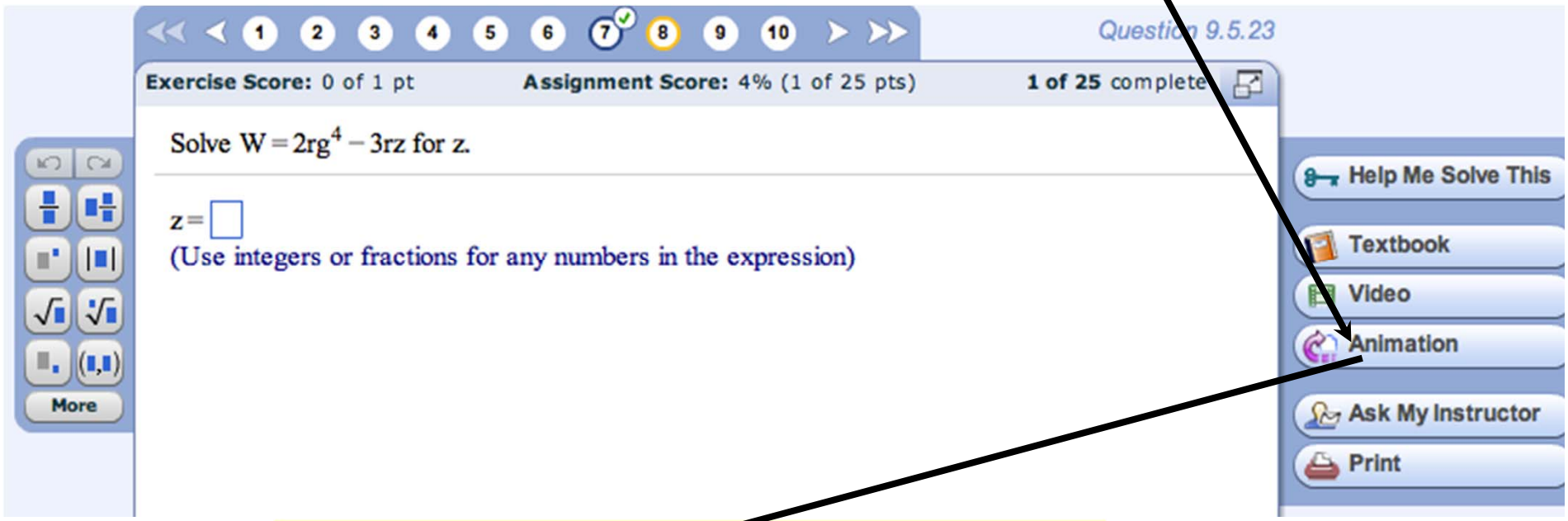




BACK

Animations

Click Here



Example

Solve each formula for the specified variable.

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

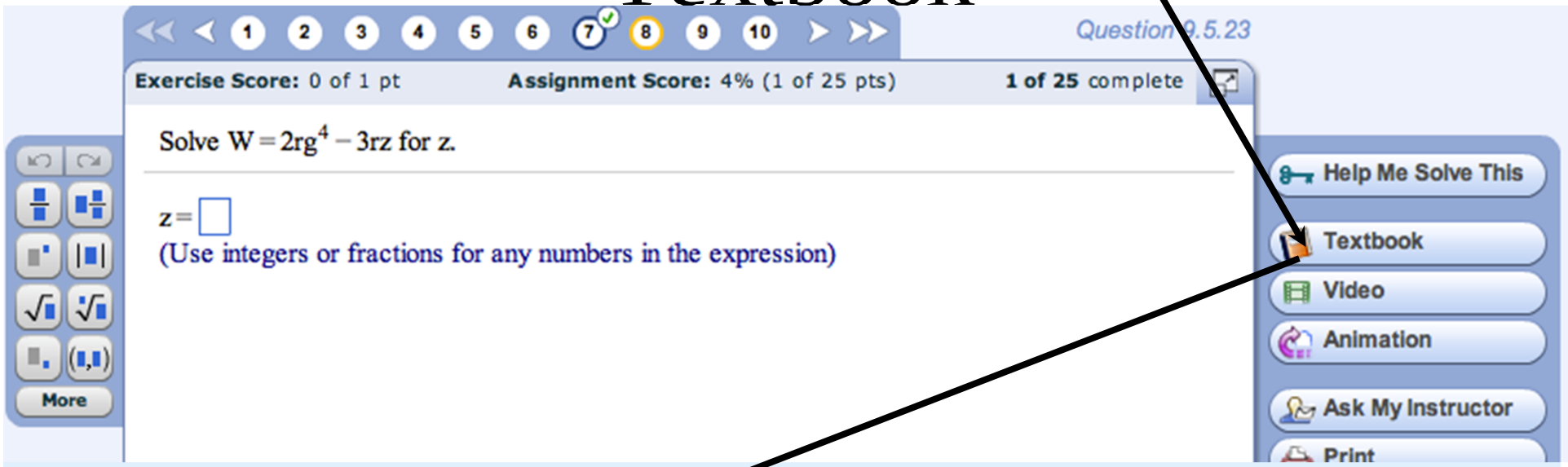
Approach

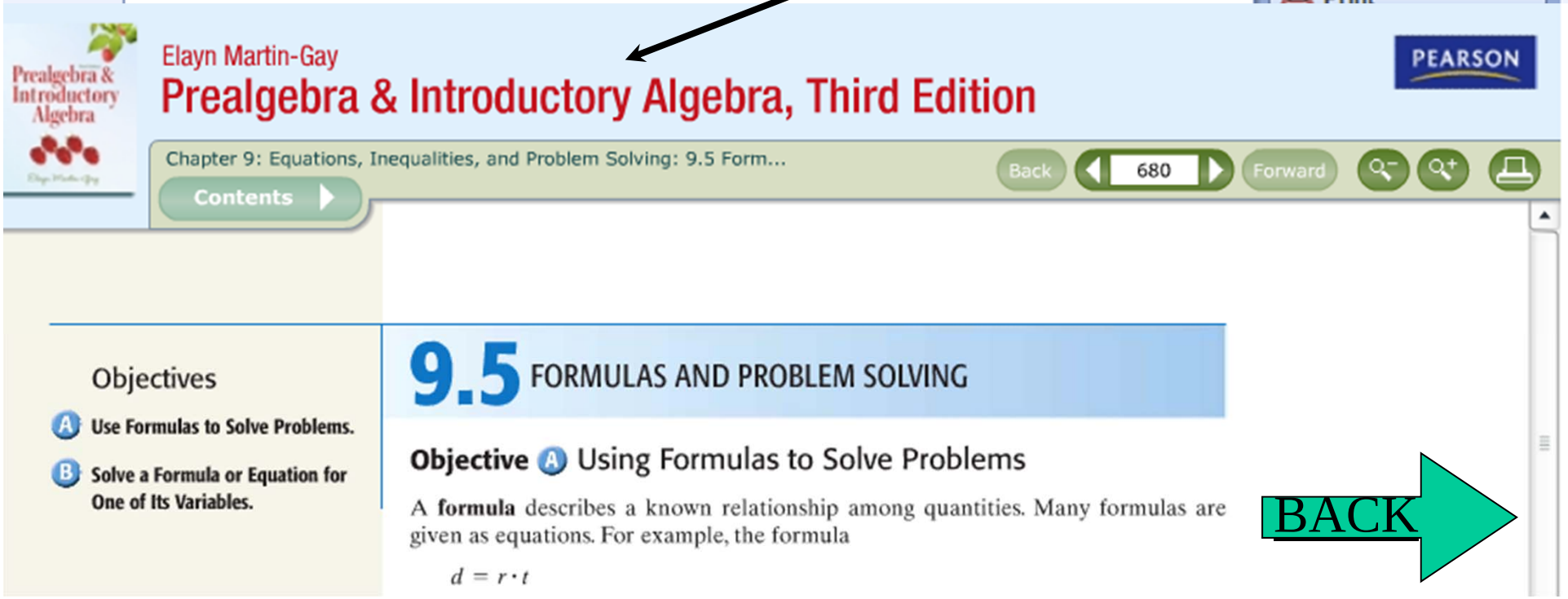
To solve an equation or formula for a specified variable, use the same 5-step process for solving a linear equation.

BACK

Textbook

Click Here



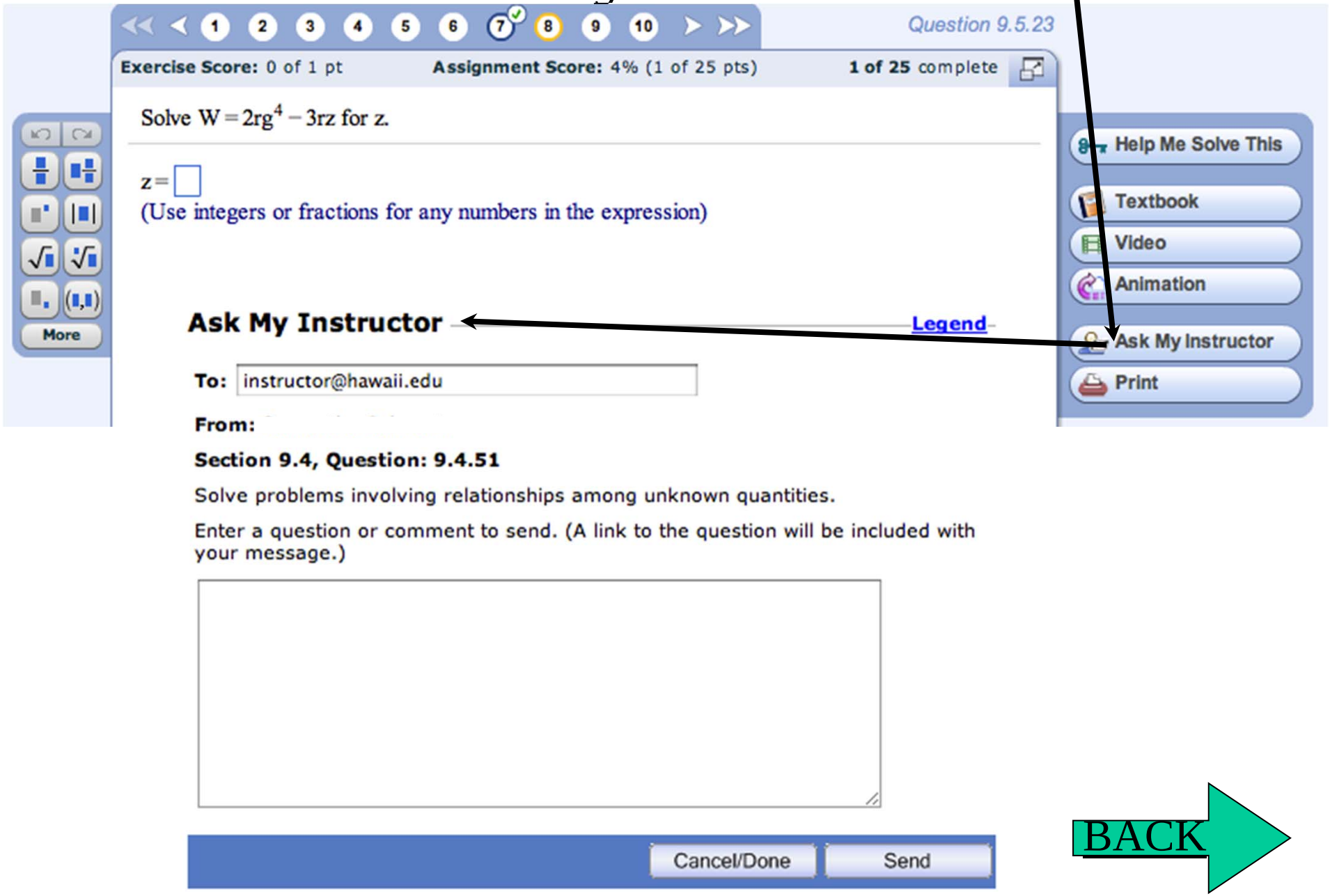


Student Organizer

- 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!

BACK

Ask My Instructor Click Here



BACK