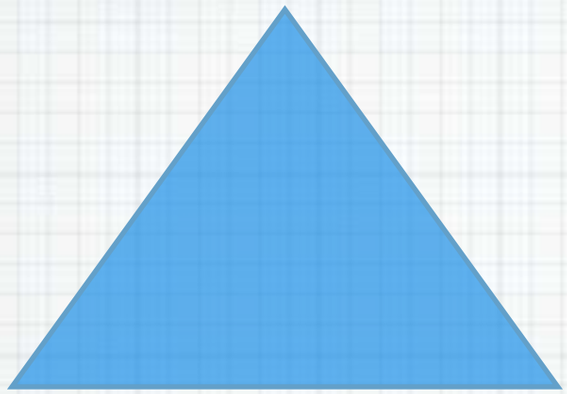

Making Connections

Shelley Leavens--math
Lisa Hoonan-Trujillo--reading
Julie Moore--English

Green River Community College
Auburn, WA

Email addresses

- Shelley sleavens@greenriver.edu
- Julie jmoore@greenriver.edu
- Lisa ltrujillo@greenriver.edu

Implementation planned for Fall Quarter, 2008

- Julie and Lisa have team taught a coordinated studies course integrating reading and English (48 students)
- The class is comprised of students who assess into the first levels of developmental English and reading and is only offered in the fall

* Our goal is to link one section of Shelley's developmental Math 062 course (Review of Arithmetic)
* Students register for both

* We will begin with one unit and hope to extend this in the future

Possible challenges:

- There will be students in the CS class who are not enrolled in Math 062
- There may be students in Math 062 who are not enrolled in the CS class
- We will need to work through this with the Testing Center, Enrollment Services, and our respective administrators

LINKED ASSIGNMENTS

- Exploring College Resources
- Word Roots
- Reading Story Problems

Exploring College Resources

- Reading--Map information
- Writing--Prewriting for paragraphs
- Math--Whole numbers (operations), perimeter, area, estimating, rounding, fractions, decimals, ratios, and percents

EXPLORING COLLEGE RESOURCES-----THE WRITING CENTER

Directions: Once you are in groups, go together to your assigned campus resource. Once you are there, work together to find answers to the following questions.
Each person in the group should take careful notes. You will use the information that you gather for several assignments in Math 62. In addition, you will use this information in Reading 94 to practice mapping. Finally, in English 81, you will use the information you gather as support in your first writing assignment.

•How many students are enrolled at GRCC this quarter?

•What is the *name* of the place you visited?

•What is the *purpose* of the place you visited – for what reason does this place exist?

•What does the space *look* like?
•Sketch the walls/perimeter of the room..
•Using a tape measure, measure the perimeter of the room to the nearest foot. Write down the measurements of each wall on your sketch of the room.
•Calculate the area of the entire space.
•How many computers are there?
•How many work tables are there?
•How many chairs are there in the room?
•Are there posters on the walls? How many? What do these look like?
•Are there bookshelves?
•What colors are used in the room?
•Is there furniture in the room? Describe.
•Are there windows in the room?

•People associated with this place
•How many people direct the Writing Center? What is the person's/people's names?
•How many tutors work in this center?
•How many students come to the Writing Center each week (or unit of time for which the center keeps data – monthly or quarterly is okay if weekly isn't available)?
•How many students are actually using the services when you visit?
•How many tutors in the room when you actually visit?

•What *specific resources* are there within this place (be detailed here!)?

•Are there pamphlets in the room? How many types?
•Are there computer resources in the room? What types of software are available on the computers?
•Are there books in the room? What types?

Word Roots

- Reading--practice breaking words into parts to determine their meaning
- Writing--increase vocabulary to use in writing
- Math--understand etymologies and meanings of math terms

Reading in the Disciplines--MATH

Here are some common terms you will find in mathematics. Most of these words are built from Greek and Latin word parts.

1. **GEOMETRY comes from "geo" (earth) + "metros" (measure)**
2. **FRACTION comes from the Latin "fract" (to break)**
3. **PERCENT comes from "per" (by) + "centum" (hundred) = "by the hundred"**
4. **PERIMETER comes from "peri" (around) + "metros" (measure)**
5. **DIAMETER comes from "dia" (across) + "metros" (measure)**
6. **MULTIPLY comes from "multi" (many) + "pli" (folds)**
7. **DIVIDE comes from the root "vidua" (a separation) *the word "widow" shares this root, and so does the word "individual" (one that cannot be divided)**
8. **SUBTRACT comes from "sub" (under) + "tract" (to pull)**
9. **ZERO comes from the Arabic root "zefirum" (empty)**
10. **COMPUTE comes from "com" (with) + "putare" thinking**
11. **SOLVE comes from the Latin root "solvere" (to loosen, untie). By 1533 people were using the word to mean (explain, answer).**
12. **DECIMAL comes from "decimus" (tenth) Think about the Spanish word for 10 (diez). It comes from the same Latin root.**
13. **PROPORTION comes from "pro" (for) + "portio" (share) = "for its share"**
14. **SIMPLIFY comes from the Latin "simplex" (simple) + "facere" (to make) = "to make easier to do." It means to reduce something to only the necessary parts.**
15. **REDUCE comes from "re" (back or again) + "duc" (to lead)**
16. **AREA comes from "area," and in math it means the number of square units needed to cover a surface.**

Reading Story Problems

- Reading--learn how to find major and minor ideas in story problems
- Writing--see models of and learn different ways to write/create story problems
- Math--solve story problems using a five-step process

Finding Major and Minor Ideas in Word Problems

1. You are a manager at Home Depot. You've worked there for five years and love your staff. Furthermore, you have a family of three that you have to provide for. You earn $20/hour for the first 40 hrs. per week. This income allows you to pay your rent and basic monthly bills, but it isn't enough to afford Christmas presents for your partner and child. However, you recently got the chance to earn extra money if you work overtime. You jump at the chance because you realize it will allow you to give your family a great Christmas. When you work overtime, you will be paid time and a half for anything over 40 hours. How much would you make if you worked a 55 hour work week?

- What is the primary question you need to answer from this story problem? (In Math, this is the "FIND" statement.)
- What are the supporting details from the story problem that will help you answer this question? (In Math, this is the "GIVEN" statement.)

2. Jim is planning a 6-day, 5-night family vacation at Disney World with his wife Sue and their three children Michael, Megan, and Marissa. Jim and his family can stay in a 4-star hotel for $180 per night, a 3-star hotel for $110 per night or a 2-star hotel for $60 per night. They can get a direct roundtrip fight to Orlando for $220 per person or a fight with one stop for $183 per person. After talking with a friend who went to Disney World 2 months ago he knows that $1200 should cover the food for the trip. If Jim has $3000 saved for the trip and wants his family to have the best vacation possible, then what options should he choose for air travel and hotel?

- What is the primary question you need to answer from this story problem? (In Math, this is the "FIND" statement.)
- What are the supporting details from the story problem that will help you answer this question? (In Math, this is the "GIVEN" statement.)

3. Scott is 16 and has just bought his first car, a Ford Escort. He saved for several years to afford this car, and is excited to take it out and show it off to his friends. However, even though Scott could afford the cost of the car, he didn't realize that he would also have to pay for its upkeep. As a result, he needs to first determine his monthly car expenses and then find a job that will allow him to pay for the car's upkeep. First Scott determines his car expenses. His car insurance costs $120 a month. He pays $60 a month for gas. He has $20 extra car related costs each month. Once he has written this down, he begins to look for a job. Enumclaw doesn't have very many job openings for high school students looking for part-time work, but luckily he is hired at a coffee stand for $7 an hour plus an average of $2 an hour in tips. How many hours would he need to work each week to pay for his car expenses?

- What is the primary question you need to answer from this story problem? (In Math, this is the "FIND" statement.)
- What are the supporting details from the story problem that will help you answer this question? (In Math, this is the "GIVEN" statement.)