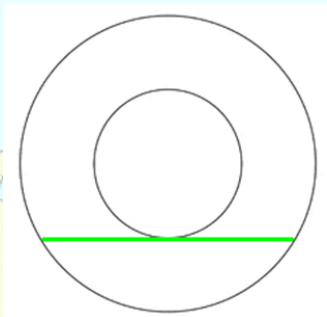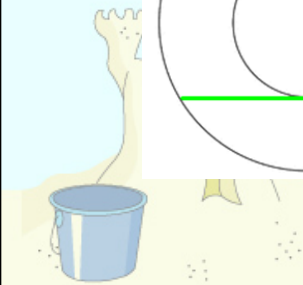## Problem Solving Warm Up

1. You've got 23 coins, in quarters and dimes only, they add up to $3.50 How many of each do you have?

2. A 100 pound watermelon is 99% water. That watermelon sat out in the sun all day and is now only 98% water. What does it weigh now?

3. The green line in the image to the left is 20 inches long. Find the area of the ring between the two concentric circles.

Are you ready?

The Summer Packet

You should've finished this.

If not, do it!

Turn it in to me the first week of September

Questions?

Before we get onto this year's math, let's talk about note taking.

To be successful it will become necessary for you to develop a system of note taking.

I'm going to outline a 5 step process loosely based on AVID's five phases.

Feel free to develop your own, but remember there are very good reasons why the 5 steps are there.

1. Take Notes!

Use a format that works for you.

The trees are already dead so put them to good use.

2. Process those notes

When you get home go back over your notes.

Make sense of what you have written; add notes, arrows, underlining, color.

Add headings and annotations.

List questions and bring them to class.

3. Connecting Thinking

Try to make connections to other math and to other subjects.

The more links the better your recall.

4. Summarize

Add a wee note telling you in words:

 what this is for;

 how to recognize this sort of problem;

 what to look out for when solving.

Also make notes on how to improve your note taking - what worked, what did not.

5. Applying

Use your notes in class.

Use your notes when studying for tests.

Compare your notes.

We are going to start every class with your questions on:

Homework

Notes

Anything else

If you are shy, collaborate! and get someone to ask the questions for you. They'll look good and you'll get answers.

Questions?

AA1 Parent Graphs and their Transformations

a. I can read and write using _function notation_.
b. I can identify and write _domain & range_.
c. I can _recognize and graph_ parent relations of linear, quadratic, rational, exponential, absolute value, radical, cubic, and circle.
d. I can _transform_ parent and piecewise relations up, down, left, right, and dilate.
e. I can _write an equation_ of any transformed graph.
f. I can _convert_ between the three forms of the quadratic equation, by any method including completing the square.

Today we will be exploring functions and the amazing things your calculator can do.

Homework: 1-13 to 1-19

Homework is due once the unit is finished.

Though you should start it right away, in case you have any questions.

part 1: Relations versus Functions

and Function Notation

Relations vs Functions

Function Notation

Mapping

Graphs

Worksheet time.

You have about 20 minutes.

Questions?

Goals

  Can you:

    explain what a relation is;

    explain what a function is;

    identify and write functions;

    build a table and graph of a function;

    use your calculator effectively?

Homework: 1-13 to 1-19