

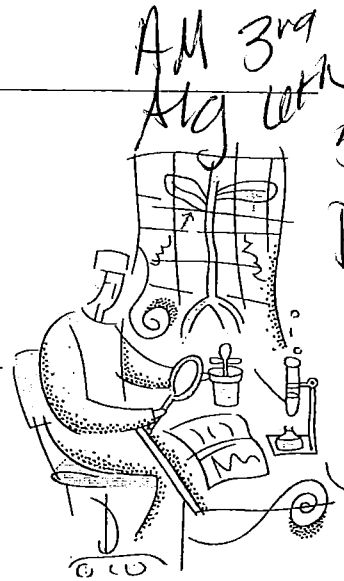
THE PLANT PROBLEM

Name _____

AM 3rd
Alg 1st
5/15/17
Dre
S/he/b

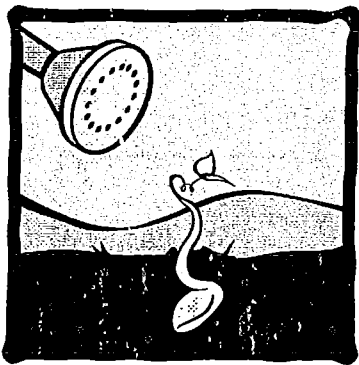
Intro to Multistep Equations in Context

Professor Botano is gathering data on the growth rate of a certain new hybrid seed. He spilled coffee on his clipboard and destroyed most of the data, but he DID remember that the seed had been growing at a constant rate throughout his observations. Help him reconstruct the data.



1 Figure out the missing values for Professor Botano's table below:

# of days since seed was planted	0	2	3	4	6	8
Height of seedling (in inches)				7	12	



2 What is the plant's daily growth rate? _____

3 What is a possible explanation for the number in the height spot on day 0?

4 Write a function for the height of the seedling in terms of days (use h for height and d for days): _____

5 Determine and explain the domain and range of your function.

6 Think, show, and interpret!

How tall was the plant on day 1?

When will the plant be 20 inches tall?

7 Use this grid to create your best possible line graph that shows the height of the plant in terms of days.

Professor Botano's Hybrid Seed Study: an Analysis of Height over Time

