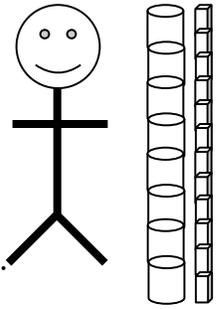


Weird Unit Conversions

1. To the right is a picture of Daryl, soda cans, and chocolate bars.

A. Write a conversion factor for the lengths of Daryl and soda cans.



B. Write a conversion factor for the lengths of soda cans and chocolate bars.

C. How tall is Daryl, as measured in chocolate bars? You should be able to CALCULATE this EXACTLY based on what you already know.

D. How many chocolate bars are 5 soda cans?

E. How many soda cans are 5 chocolate bars?

2. Two golf pencils (a very short type of pencil) are the same length as one popsicle stick.

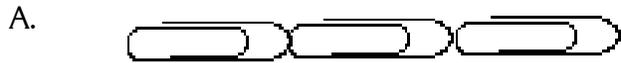
A. Draw a picture that shows both objects to the proper scale.

B. A golf pencil is 3.5 inches long. This paper is 11 inches high. If you measured the paper using golf pencils, how many pencils high would it be? (Be as exact as you can!)

C. Use your previous answer to write a conversion factor between golf pencils and papers.

D. How many popsicle sticks high is the paper?

3. Suppose that 1 popsicle stick is the length of 4.2 paper clips. If you wanted to completely cover the paperclips below by laying popsicle sticks on top of them, how many popsicle sticks (including fractions of sticks) would you need for each set of clips?



4. A water bottle is 9 paper clips high. Recall that 4.2 paper clips is the same length as 1 popsicle stick.

A. How tall is the water bottle in popsicle sticks?

B. Draw a picture of the water bottle along with the right number of paper clips and popsicle sticks.

5. It takes 6.1 flurbs to equal the length of a glug.

A. Write the conversion factor.

B. Draw a scale diagram of this relationship.

C. How many glugs are there in 27.3 flurbs?

D. How many flurbs are there in 18.3 glugs?