

sugar, sugar can be found online at <http://hm.gs/sugarsugar>

sugar, sugar Worksheet



Level 1:

Let all of the sugar cubes fall to the ground, and estimate how many sugar cubes there are in all? (hint: use a clock to time how long it takes for all the cubes to pour out, and how long it takes to fill up a 100 sugar cube cup.)

Use your estimation from Level 1 to answer the questions for levels 2, 3, and 4:

Level 2:

After filling-up the two cups on level 2, how many cubes are left over? (show your work)

Level 3:

Draw a line to divide all of the cubes into red and white evenly. After the red cup fills up, how many red sugar cubes are left over? After the white cup fills up, how many white sugar cubes are left over? (show your work)

Level 4:

Draw a line to divide all of the cubes in half, $\frac{1}{2}$ going through the bottom and the other $\frac{1}{2}$ going towards the 2 cups on the right. Now draw a line on the right, to evenly distribute the sugar cubes between the 2 cups on the right. After the top cup fills up, how many sugar cubes are sitting around the top cup? (show your work)