

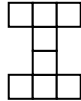
Solutions to “Letter Perfect”

Session 2 Math Problem

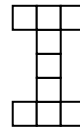
Here is a capital letter I made in different sizes using small tiles or squares. Can you describe how the letter is growing from one size to the next?



Size 1



Size 2



Size 3

1. The middle column of squares increases by one with each successive letter I. The three squares on top and on the bottom stay the same.
2.
 - a) 12
 - b) 16
 - c) 44
 - d) 106
3. The number of squares in the column is the same as the letter size. Then you add 3 more tiles for the top and 3 more tiles for the bottom.
If S is the letter size, you can express this as $S + 6$.
4. Size 33.