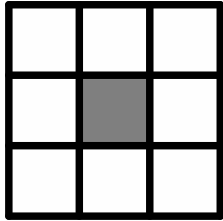
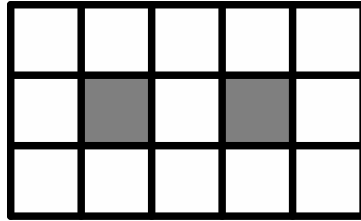


## Almost Cinder Blocks

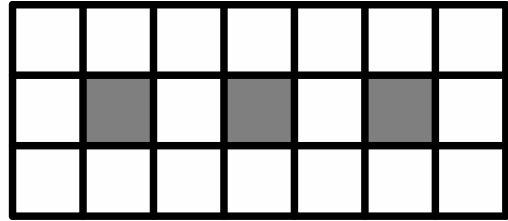
The figures below are made up of light and dark tiles.



Step 1



Step 2



Step 3

For the questions below, it is VERY important that you show your work and how it relates to the figures above.

1. How many light tiles would be needed in Step 6?
2. How many light tiles would be needed in Step 100?
3. How many light tiles would be required in Step  $n$ ?
4. How is each part of your expression in Question 3 seen in the figures shown above?
5. How many black tiles would be needed to complete a figure using 28 white tiles? Show all of your work.