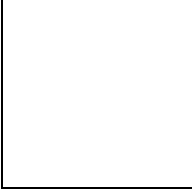
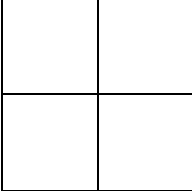
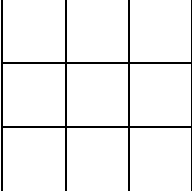
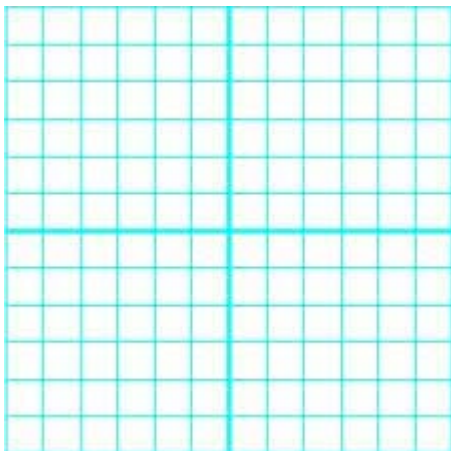


1. A square floor can be tiled using different size square tiles. Fill in the blank rows in the table.

Tile across the base	Visual description	Number of tiles being used
1		1
2		4
3		9
4		
n		

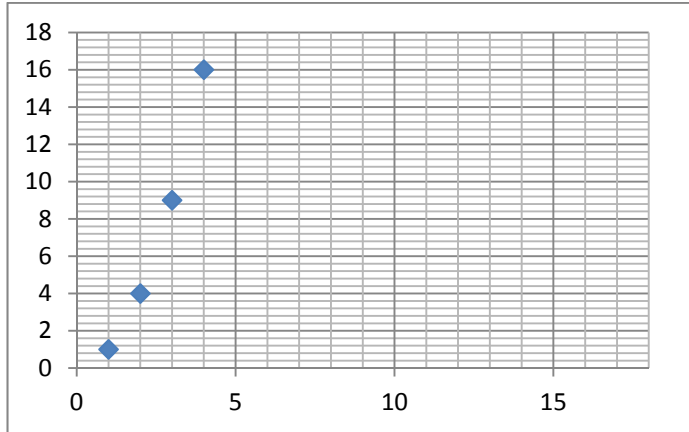
2. Sketch a scatterplot that represents the data from the relation above. Then sketch a complete graph of the function rule that models the problem situation.



3. Complete the table to show the inverse of the problem situation. Then graph the inverse relationship and both function rules.

x	$y = x^2$
1	2
2	4
3	9
4	16

$x = y^2$	y



4. Consider the function $f(x) = 3x^2 - 4$. Fill in the following tables to describe $f(x)$ and its inverse $f^{-1}(x)$. Sketch a graph of $f(x)$ and $f^{-1}(x)$ on the same graph grid. Is the inverse relation a function? Explain.

x	$f(x)$

x	$f^{-1}(x)$

