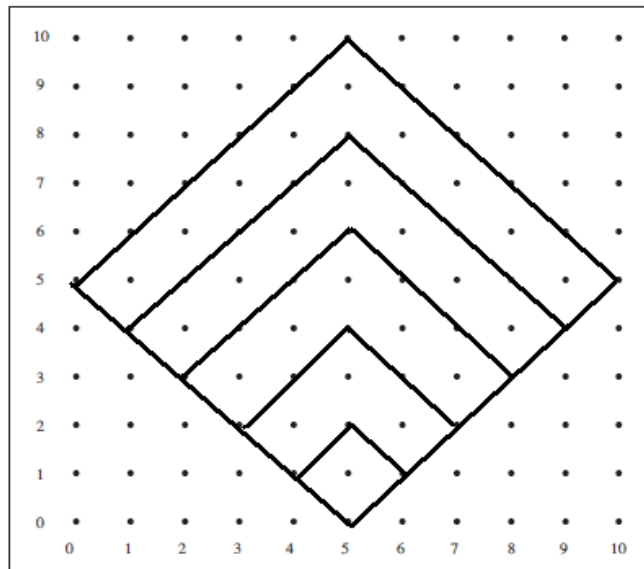


## Visualizing the $\sqrt{2}$ and $\sqrt{5}$

- Build a square that contains an area of 4. Find the length of its side.
- Repeat the previous step with a square of area 16 and 25.
- Notice that the length of the side of the square is equal to the square root of the area of the square.
- Build another square with an area of 9 and 36 and confirm the previous statement.
- Build the five squares illustrated in the next figure.
- Determine the area of each square and the length of the side of each square. Looking at the geoboard find another way to represent the length of the side of each square. Look for several ways to write each square root.



- Build the three squares as illustrated in the next figure.
- Determine the area of each square and the length of the side of each square. Looking at the geoboard find another way to represent the length of the side of each square. Look for several ways to write each square root.

