

Station 3

In this station you investigate the link between the side lengths of a square and its area.

Resources:

- square tiles
- squared paper
- calculator

1. Make a square with 25 square tiles. What is the side length of the square?
Key in $\sqrt{25}$ on the calculator. What do you notice?
2. Use square tiles and your calculator (if you need) to complete the entries in this table:

Number of tiles	Side length of Square	Square Root
9		$\sqrt{9} =$
36		$\sqrt{36} =$
81		$\sqrt{81} =$
49		$\sqrt{49} =$
100		$\sqrt{100} =$

What does the square root function on a calculator do?

3. Use what you have found out from part 2 to draw squares with the following areas on squared paper.

121 square units

6.25 square units

12.25 square units

18 square units

42 square units

90 square units

4. What are the side lengths of these squares?

