


1. Copy the table above.

Add side lengths of $15,20,25$, and 60 and fill in the missing areas.
i. What is the area of the first square drawn on the tile?

2. a. If a tile's area were $900 \mathrm{~cm}^{2}$, how long would each side be?
b. If the area were $2500 \mathrm{~cm}^{2}$, how long would each side be?
3. This is the basic design that Thomas and Ria like best. It has an area of $1600 \mathrm{~cm}^{2}$.
a. How long is each side of the tile?
b. Each new square is made by taking the midpoints of the sides of the previous square and joining them to make the new square inside it.
 How long is each of its sides?
ii. Find the areas and the lengths of the sides of the two smallest squares.
4. Find the square roots of $25,36,49,64,81,100,0,1,4$, and 9 .
5. a. Copy this graph (use a full page). On it, plot 10 numbers and their square roots. Join the points with a curved line.
b. Use your graph to estimate the square roots of the following numbers. Then use a calculator to find the actual figure (to two decimal places).
i. 35
ii. 62
iii. 18
iv. 76


