√ SQUARE ROOTS · YEAR 8

Square Root Word Problems

Name _____ **Date** _____

Solve each problem. Show your working in the space provided, and include units where needed. You may use a calculator for Question 6.

1 AREA AND SIDE LENGTH

A square flower bed has an area of 196 m². How long is one side of the bed?

WORKING

Answer _____

2 MEASUREMENT AND UNITS

A square rug covers 1.44 m². What is the length of one side in centimetres? Remember to convert your measurement.

WORKING

Answer _____

3 SQUARE ARRANGEMENT

A square mosaic is made from 225 identical tiles, arranged in equal rows and columns. How many tiles are in each row?

WORKING

Answer _____

4 PERIMETER

A square playground has an area of 625 m². How many metres of fencing are needed to go all the way around it?

WORKING

Answer _____

5 FINDING A DIMENSION

A square display board has an area of 900 cm². What is the length of one side?

WORKING

Answer _____

6 ESTIMATE AND ROUND

A square pond has an area of 40 m². Estimate its side length to the nearest 0.1 m.

WORKING

Answer _____

Final check: Have you shown your working and included the correct units?