MATHEMATICS · YEAR 6

Square Roots in Context Word Problems

Name: _____ **Date:** _____

Your task
Use the area to work out the side length of each square. Show your calculation and include the correct unit.

REMEMBER
Area = side × side

Solve each problem

1 A square community garden has an area of **81 m²**. How long is each side?

Working:

Answer (with unit): _____

2 A square noticeboard has an area of **2,500 cm²**. What is the length of one side?

Working:

Answer (with unit): _____

3 A square reading corner covers **36 m²** of floor space. Find the length of each side.

Working:

Answer (with unit): _____

4 A square patio has an area of **196 m²**. How many metres of edging are needed to go all the way around it? Find the side length first.

Working:

Answer (with unit): _____

5 A square allotment has an area of **400 m²**. What is the length of one side?

Working:

Answer (with unit): _____

6 A square sheet of wrapping paper has an area of **1,600 cm²**. Find the length of one side.

Working:

Answer (with unit): _____

7 **Challenge:** A square courtyard has an area of **324 m²**. Sam says its side is 18 m. Is Sam correct? Explain your check, then find the perimeter.

Working:

Answer(s): _____

Quick check: Have you included a unit with each answer?