YEAR 7 MATHEMATICS

Finding Square Roots of Perfect Squares

Name _____ **Date** _____

Learning goal I can use multiplication facts to find square roots.

A Find each square root

Work out each answer. Use a multiplication fact to help you if you need to.

1	√9 = _____	2	√121 = _____	3	√25 = _____
4	√144 = _____	5	√49 = _____	6	√4 = _____
7	√100 = _____	8	√36 = _____	9	√81 = _____
10	√1 = _____	11	√64 = _____	12	√16 = _____

B Complete each square fact

The same number is used for both factors in a square.

1. 5 × 5 = _____

So, √25 = _____

2. 9 × _____ = 81

So, √81 = _____

3. _____ × _____ = 144

So, √144 = _____

4. √64 = _____

Write the multiplication fact: _____

C Use square roots in context

PROBLEM SOLVING

A square garden has an area of 121 m². Find the length of one side.

Side length: _____ m

_____

COMPARE

Square A has an area of 49 cm². Square B has an area of 64 cm². Which has the longer side?

Explain using a square root or multiplication fact:

_____

_____