Word Problems with Square Roots

Name: _____ **Date:** _____

Instructions: Read each problem carefully. Show your working and write your answer on the line provided.

1. A square garden has an area of 64 square metres. What is the length of one side of the garden?

Working:

Answer: _____ metres

2. A square tile has an area of 121 square centimetres. What is the length of each side of the tile?

Working:

Answer: _____ centimetres

3. Sarah is arranging 144 chairs in a square formation for a school assembly. How many chairs will be in each row?

Working:

Answer: _____ chairs

4. A square playground covers an area of 225 square metres. The school wants to put a fence around it. What is the total length of fencing needed?

Working:

Answer: _____ metres

5. A farmer has 196 apple trees to plant in a square orchard. If the trees are planted in equal rows, how many trees will be in each row?

Working:

Answer: _____ trees

6. A square picture frame has an area of 400 square centimetres. What is the length of one side of the frame?

Working:

Answer: _____ centimetres

Remember: The square root of a number is the value that, when multiplied by itself, gives the original number.