

# Word Problems with Square Roots

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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*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: \_\_\_\_\_

**2. Emma is arranging 81 chairs in a square formation for a school assembly. How many chairs will be in each row?**

Working:

Answer: \_\_\_\_\_

**3. A square playground has an area of 225 square metres. What is the perimeter of the playground?**

Working:

Answer: \_\_\_\_\_

**4. Tom has 144 square tiles. He wants to arrange them into a large square. How many tiles will be along each edge of the square?**

Working:

Answer: \_\_\_\_\_

**5. A square piece of fabric has an area of 196 square centimetres. What is the length of one side in centimetres?**

Working:

Answer: \_\_\_\_\_

**6. Sarah is making a square photo collage using 100 photos. If she arranges them in a perfect square, how many photos will be in each row?**

Working:

Answer: \_\_\_\_\_

**7. A square courtyard has an area of 169 square metres. Fencing costs \$15 per metre. How much will it cost to fence all four sides of the courtyard?**

Working:

Answer: \_\_\_\_\_

**8. A teacher has 121 students and wants to arrange them in a square formation for a photograph. How many students will be in each row?**

Working:

Answer: \_\_\_\_\_