

Surname	
Other Names	
Candidate's Signature	

## GCSE 9 - 1 Questions

### Powers and Roots

## Calculator Not Allowed

#### INSTRUCTIONS TO CANDIDATES

Write your name in the space provided.

Write your answers in the spaces provided in this question paper.

Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

**Total Marks :**

1)

23	75	44
50	12	47
14	49	24

**From the numbers in the grid, write down**

a square number.

Answer \_\_\_\_\_ [1]

2) Write down the value of  $\sqrt{81}$

Answer \_\_\_\_\_ [1]

(b) Write down  $\sqrt{64}$

Answer \_\_\_\_\_ [1]

3) Between which two whole numbers would you expect to find the value of  $\sqrt{42}$ ?

Answer \_\_\_\_\_ and \_\_\_\_\_ [1]

4) Write down the value of  $3^3$

Answer \_\_\_\_\_ [1]

5)

<b>25</b>	<b>6</b>	<b>8</b>	<b>20</b>
<b>7</b>	<b>10</b>	<b>1000</b>	<b>24</b>

Choose a number from the table to match each statement.  
You must give a reason for each answer.

[6]

A factor of 12: .....

Reason: .....

.....

A prime number: .....

Reason: .....

.....

The square root of 100: .....

Reason: .....

.....