

Surname	
Other Names	
Candidate's Signature	

## GCSE 9 - 1 Questions

### Prime Factors

**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.

You should have a ruler, compass and protractor where required.

**Total Marks :**

1) Write 84 as a product of prime factors.

Answer \_\_\_\_\_ [2]

2) Express 360 as a product of prime factors. Give your answer in index notation.

Answer \_\_\_\_\_ [3]

3) (a) Write 720 as a product of prime factors.  
Express your answer in index notation.

Answer \_\_\_\_\_ [3]

(b) Hence find the **least** number by which 720 would need to be multiplied by to give a square number.

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

4) Write 48 as the product of prime factors.

Answer \_\_\_\_\_ [2]

5) Write 60 as a product of prime factors.

Answer \_\_\_\_\_ [2]

6) Write 80 as a product of its prime factors, giving your answer in index form.

Answer \_\_\_\_\_ [3]

7) Write 120 as a product of prime factors and express your answer in index notation.

Answer \_\_\_\_\_ [3]