

Name

Class



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Prime factors

(9 – 1) Topic booklet

Higher

These questions have been collated from previous years GCSE Mathematics papers.

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
 - *there may be more space than you need.*
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must **show all your working out**.
- If the question is a **1H** question you are not allowed to use a calculator.
- If the question is a **2H** or a **3H** question, you may use a calculator to help you answer.

Information

- The marks for **each** question are shown in brackets
 - *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

**Answer ALL questions
Write your answers in the space provided.
You must write down all the stages in your working.**

1 Write 84 as a product of its prime factors.



.....
(2)

November 2020 – Paper 2H

(Total for Question 1 is 2 marks)

1 Write 500 as a product of powers of its prime factors.

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November 2022 – Paper 1H

(Total for Question 1 is 3 marks)

1 Write 36 as a product of its prime factors.

.....

November 2017 – Paper 1H

(Total for Question 1 is 2 marks)

2 (a) Write 90 as a product of its prime factors.

.....
(2)

$$A = 2^2 \times 3$$

$$B = 2 \times 3^2$$

(b) Write down the lowest common multiple (LCM) of A and B .

.....
(1)

2 Write 124 as a product of its prime factors.

June 2022 – Paper 1H

(Total for Question 2 is 2 marks)

2 Express 56 as the product of its prime factors.

May 2017 – Paper 1H

(Total for Question 2 is 2 marks)

2 Write 60 as a product of its prime factors.



June 2023 – Paper 2H

(Total for Question 2 is 2 marks)