

Standard Form

Please write clearly in block capitals

Forename:
Surname:

Materials

For this paper you must have:

- mathematical instruments



You must **not** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

1(a) Write 1.24×10^6 as an ordinary number.

(Level 3)

[1 mark]

Answer _____

1(b) Write the number 742,000 in standard form.

[1 mark]

Answer _____

1(c) Write 6.3×10^{-7} as an ordinary number.

[1 mark]

Answer _____



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2(a) Write 9.9×10^{-4} as an ordinary number.

(Level 4)

[1 mark]

Answer _____

2(b) Write the number 0.068 in standard form.

[1 mark]

Answer _____

2(c) Work out the value of $(6 \times 10^3) \times (9 \times 10^4)$.
Give your answer in standard form.

[2 marks]

Answer _____

Turn over for next question

3(a) Write 5×10^1 as an ordinary number.

(Level 4)

[1 mark]

Answer _____

3(b) Write the number 2.7027×10^{-2} as an ordinary number.

[1 mark]

Answer _____

3(c) Work out the value of $(4 \times 10^6) \div (2 \times 10^4)$.

Give your answer as an ordinary number.

[2 marks]

Answer _____



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4(a) Write 4.7×10^5 as an ordinary number in words.

(Level 4)

[1 mark]

Answer _____

4(b) Write the following numbers as ordinary numbers in ascending order.

Forty six 7.2×10^2 6,311 4.66×10^5 0.87 3.3×10^{-4}

[3 marks]

Answer _____



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- 5 Jake noted that speed of light is approximately 1.1×10^9 km/h; (Level 5)
the speed of sound is approximately 1.2×10^3 km/h; and
 $11 \div 12 = 0.91\dot{6}$.

Using Jake's figures how many times faster is light than speed?

Write your answer in standard form.

[3 marks]

Answer _____

Turn over for next question

