

Powers and Roots

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) Simplify $a^2 \times a^4$

(Level 3)

[1 mark]

Answer _____

1(b) Simplify $\frac{b^6}{b^3}$

[1 mark]

Answer _____

1(c) Work out 4×2^3

[1 mark]

Answer _____

Turn over for next question

2(a) Simplify $m^7 \times m^4$

(Level 3)

[1 mark]

Answer _____

2(b) Simplify $\frac{m^7}{m^4}$

[1 mark]

Answer _____

2(c) Work out 3^0

[1 mark]

Answer _____



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3(a) Simplify $n^7 \times n$

(Level 4)

[1 mark]

Answer _____

3(b) Simplify $\frac{p^6}{p^5}$

[1 mark]

Answer _____

3(c) Simplify $(2q^4)^5$

[2 marks]

Answer _____



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4(a) Simplify $(3n^2)^3$

(Level 4)

[2 marks]

Answer _____

4(b) Simplify $(ag^7)^{14}$

[2 marks]

Answer _____

Turn over for next question

5(a) Simplify $(9t^4)^2$

(Level 4)

[2 marks]

Answer _____

5(b) Simplify $\frac{24x^4y^{10}}{6x^2y^7}$

[2 marks]

Answer _____



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6(a) Simplify $7a^2b^3 \times 8a^4b^6$

(Level 4)

[2 marks]

Answer _____

6(b) Simplify $8a^4b^6 \div 2a^2b^3$

[2 marks]

Answer _____

6(c) Simplify $(2ab)^2 \times 2a^4b^6$

[2 marks]

Answer _____

End of questions