

Practice paper (non-calculator)

Higher tier

Suggested time: 2 hours

The marks for questions are shown in brackets.
The total marks for each question are shown in square brackets.
The maximum mark for this paper is 100.

1 a Write 2.67×10^5 in decimal notation.

.....
(1 mark)

b Write the number 0.000 000 024 in standard form.

.....
(1 mark)

c Work out $(4 \times 10^3) \div (8 \times 10^{-2})$
Give your answer in standard form.

.....
(1 mark)

[Total: 3 marks]

2 Simplify $(2x^5y^2)^3$

.....
[Total: 2 marks]

3 Expand and simplify $(3x + 2)(2x - 3)(x - 4)$

.....
[Total: 3 marks]

4 Rearrange $y = \frac{2x + 1}{x - 4}$ to make x the subject.

.....
[Total: 3 marks]