



GCSE Maths

Numbers

Standard Form

Name:
Date:

Materials

You can use a calculator for these questions



Tips

Show how you worked out the answer if you can.

Simple Questions

1. Write 4,500 in standard form.

Answer _____ [1 mark]

2. Express 0.007 in standard form.

Answer _____ [1 mark]

3. Convert 3.2×10^5 to an ordinary number.

Answer _____ [1 mark]

4. Write 1,200,000 in standard form.

Answer _____ [1 mark]

5. Express 5.6×10^{-3} as an ordinary number.

Answer _____ [1 mark]



Medium Questions

6. Multiply $(3 \times 10^4) \times (2 \times 10^3)$ and give your answer in standard form.

Answer _____ [2 mark]

7. Divide $(6 \times 10^6) \div (2 \times 10^2)$ and give your answer in standard form.

Answer _____ [2 mark]

8. Express 0.000045 in standard form.

Answer _____ [2 mark]

9. Convert 7.1×10^{-2} to an ordinary number.

Answer _____ [2 mark]

10. Evaluate $(2.5 \times 10^3) + (3.1 \times 10^4)$ and write the answer in standard form.

Answer _____ [2 mark]



Difficult Questions

11. Simplify and express in standard form $(4 \times 10^5) \times (6 \times 10^{-3})$.

Answer _____ [3 mark]

12. Evaluate $(9 \times 10^7) \div (3 \times 10^2)$ and write your answer in standard form.

Answer _____ [3 mark]

13. The distance from Earth to the Moon is approximately 3.84×10^5 km.
The distance from Earth to the Sun is approximately 1.5×10^8 km.
How many times further is the Sun than the Moon?
Express your answer in standard form.

Answer _____ [3 mark]

14. Convert 0.00000089 to standard form.

Answer _____ [3 mark]

15. Solve for x in $(2.5 \times 10^x) = 250,000$.

Answer _____ [3 mark]

