

Standard Form Exam Practice



- Q1. Write 530,000,000 in standard form. (1 mark)
- Q2. Write 230500000 in standard form. (1 mark)
- Q3. Write 0.007 in standard form. (1 mark)
- Q4. Write 0.000802 in standard form. (1 mark)
- Q5. Write 5.2×10^4 as an ordinary number. (1 mark)
- Q6. Write 4.203×10^8 as an ordinary number. (1 mark)
- Q7. Write 1.39×10^{-3} as an ordinary number. (1 mark)
- Q8. Write 9.25×10^{-6} as an ordinary number. (1 mark)

Arithmetic using Standard Form:

- Q9. Work out $(4 \times 10^3) \times (8 \times 10^2)$ giving your answer in standard form. (2 marks)
- Q10. Work out $(2.8 \times 10^2) \times (8.9 \times 10^4)$ giving your answer in standard form. (2 marks)
- Q11. Work out $(4.6 \times 10^2) \times (5.0 \times 10^{-6})$ giving your answer in standard form. (2 marks)
- Q12. Work out $(6 \times 10^5) \div (8 \times 10^2)$ giving your answer in standard form. (2 marks)
- Q13. Work out $(3.9 \times 10^2) \div (4.5 \times 10^{-3})$ giving your answer in standard form. (2 marks)



Q14. Work out $(2 \times 10^3) + (1.8 \times 10^2)$ giving your answer in standard form.
(2 marks)

Q15. Work out $(3.2 \times 10^4) - (5.3 \times 10^3)$ giving your answer in standard form.
(2 marks)

Q16. Work out $\frac{0.8 \times 0.4}{0.02}$ giving your answer in standard form.
(2 marks)

Q17. Work out $\frac{2 \times 10^4 \times 3.2 \times 10^3}{4 \times 10^5}$ giving your answer in standard form.
(2 marks)

Problem Questions

Q18. The side of a cube is 4×10^3 cm. Work out the volume of the cube, giving your answer in standard form.
(3 marks)

Q19. Put the following numbers in order starting with the largest.
 0.52×10^2 , 0.00031×10^5 , 5300×10^{-3} , 3×10^1
(2 marks)

Q20. The volume of Pluto is 7×10^9 km³ and the volume of the sun is 1.4×10^{18} km³. Work out how many times Pluto could fit inside the sun, giving your answer to the nearest whole number.
(3 marks)

Q21. Which of these is not a square number? Explain your choice.
 36×10^2 , 49×10^6 , 81×10^3 , 400×10^8 , 25×10^6
(2 marks)

Q22. The area of three islands A, B and C are shown below:

A	0.347×10^8 km ²
B	13.8×10^6 km ²
C	420003000 km ²

Mike says that the total area of island A and island B is greater than the area of island C. Is he correct? You must explain your answer.
(2 marks)