

Standard Form Exam Practice



Q1. Write 530,000,000 in standard form.

Answer: _____
(1 mark)

Q2. Write 230500000 in standard form.

Answer: _____
(1 mark)

Q3. Write 0.007 in standard form.

Answer: _____
(1 mark)



Q4. Write 0.000802 in standard form.

Answer: _____
(1 mark)

Q5. Write 5.2×10^4 as an ordinary number.

Answer: _____
(1 mark)

Q6. Write 4.203×10^8 as an ordinary number.

Answer: _____
(1 mark)



Q7. Write 1.39×10^{-3} as an ordinary number.

Answer: _____
(1 mark)

Q8. Write 9.25×10^{-6} as an ordinary number.

Answer: _____
(1 mark)

Arithmetic using Standard Form:

Q9. Work out $(4 \times 10^3) \times (8 \times 10^2)$ giving your answer in standard form.

Answer: _____
(2 marks)



Q10. Work out $(2.8 \times 10^2) \times (8.9 \times 10^4)$ giving your answer in standard form.

Answer: _____
(2 marks)

Q11. Work out $(4.6 \times 10^2) \times (5.0 \times 10^{-6})$ giving your answer in standard form.

Answer: _____
(2 marks)

Q12. Work out $(6 \times 10^5) \div (8 \times 10^2)$ giving your answer in standard form.

Answer: _____
(2 marks)



Q13. Work out $(3.9 \times 10^2) \div (4.5 \times 10^{-3})$ giving your answer in standard form.

Answer: _____
(2 marks)

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

Answer: _____
(2 marks)

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

Answer: _____
(2 marks)



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

Answer: _____
(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.

Answer: _____
(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.

Answer: _____
(1 mark)



Q19. Put the following numbers in order starting with the largest.

$$0.52 \times 10^2, \quad 0.00031 \times 10^5, \quad 5300 \times 10^{-3}, \quad 3 \times 10^1$$

Answer: _____
(1 mark)

Q20. The volume of Pluto is $7 \times 10^9 \text{ km}^3$ and the volume of the sun is $1.4 \times 10^{18} \text{ km}^3$. Work out how many times Pluto could fit inside the sun, giving your answer to the nearest whole number.

Answer: _____
(2 marks)



Q21. Which of these is not a square number? Explain your choice.

$$36 \times 10^2, \quad 49 \times 10^6, \quad 81 \times 10^3, \quad 400 \times 10^8, \quad 25 \times 10^6$$

Answer: _____
(2 marks)

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

A	$0.347 \times 10^8 \text{ km}^2$
B	$13.8 \times 10^6 \text{ km}^2$
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.

Answer: _____
(2 marks)