Year 9 Standard Form and Bounds – Mixed Practice

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Year 9 · Maths · Standard Form, Powers of Ten and Bounds · Mixed practice · 30 questions

Name _____ **Date** _____

A. Mixed practice (mixed order)

1. Work out $8.3 \div 10^2$. Answer _____

2. x = 160, correct to the nearest 10. Write down the error interval for x.

Answer _____

3. Work out $0.099 \div 10^4$. Answer _____

4. x = 2.47, correct to 2 decimal places. Write down the error interval for x.

Answer _____

5. A square has sides of 29 cm, correct to the nearest cm. Work out the upper bound of its perimeter.

Answer _____

6. Work out $(3.3 \times 10^7) + (9 \times 10^5)$. Give your answer in standard form.

Answer _____

7. Work out 57×10^2. Answer _____

8. Write 8.7×10^{-4} as an ordinary number. Answer _____

9. Write 0.055 in standard form. Answer _____

10. Work out $(5.7 \times 10^3) + (2 \times 10^2)$. Give your answer in standard form.

Answer _____

11. A rectangle measures 31 m by 37 m, each correct to the nearest metre. Work out the lower bound of its perimeter.

Answer _____

12. Kofi writes $970\,000 = 97 \times 10^4$. Spot the mistake and give the correct answer.

Answer _____

13. A photo uses 4×10^6 bytes. A memory card holds 4×10^{10} bytes. How many photos fit on the card? Give your answer in standard form.

Answer _____

14. Work out 3.37×10^1.

Answer _____

15. Write these numbers in order of size, smallest first: 5.5×10^{-2}; 0.00074; 8.5×10^{-3}; 8.9×10^{-3}

Answer _____

16. Write 2.5×10^{5} as an ordinary number. Answer _____

17. Amir says $(2 \times 10^{3}) \times (3 \times 10^{4}) = 6 \times 10^{12}$. Is Amir right? Explain.

Answer _____

18. Write 0.0027 in standard form. Answer _____

19. x = 2.5, correct to 1 decimal place. Write down the error interval for x.

Answer _____

20. Work out 4.7×10^{2}. Answer _____

21. Kofi says dividing a positive number by 10^{-3} makes it smaller. Is Kofi right? Explain.

Answer _____

22. Work out $(7.8 \times 10^{-7}) - (1 \times 10^{-8})$. Give your answer in standard form.

Answer _____

23. Each bag of flour weighs 25 kg, correct to the nearest kg. Work out the lower bound of the total mass of 10 bags.

Answer _____

24. A bottle holds 5.6 litres, correct to 1 decimal place. Write down the lower and upper bounds.

Answer _____

25. Write these numbers in order of size, smallest first: 7.8×10^{-3}; 3.2×10^{-2}; 0.0054; 3.6×10^{-3}

Answer _____

26. Write 0.037 in standard form.

Answer _____

27. A country has a population of 8×10^{7} people and an area of 5×10^{5} km². How many people are there per km², on average? Give your answer as an ordinary number.

Answer _____

28. A desk is 86 cm long, correct to the nearest cm. Can its true length be 85.5 cm? Explain.

Answer _____

29. Write 4.2×10^{-2} as an ordinary number.

Answer _____

30. Bella says $8.7 \div 10^{-2} = 0.087$. Spot the mistake and give the correct answer.

Answer _____