

Operations with Scientific Notation

Perform each operation. Write your answer in **SCIENTIFIC NOTATION!!**

1. $(2 \times 10^4) + (5 \times 10^4)$

7×10^4

2. $(3.5 \times 10^{-3}) + (1 \times 10^{-3})$

4.5×10^{-3}

3. $(8.3 \times 10^{-5}) - (4.4 \times 10^{-5})$

3.9×10^{-5}

4. $(7.2 \times 10^9) - (5.8 \times 10^9)$

1.4×10^9

5. $(7.4 \times 10^{-6}) + (5 \times 10^{-6})$

$12.4 \times 10^{-6+1} = 1.24 \times 10^{-5}$

6. $(7.13 \times 10^{12}) + (8.04 \times 10^{12})$

$15.17 \times 10^{12+1} = 1.517 \times 10^{13}$

7. $(1.4 \times 10^2) - (1.1 \times 10^2)$

$0.3 \times 10^{2-1} = 3 \times 10^1$

8. $(5.2 \times 10^{-4}) - (4.58 \times 10^{-4})$

$0.62 \times 10^{-4-1} = 6.2 \times 10^{-5}$

9. $(6.4 \times 10^{-2}) + (4.7 \times 10^{-3})$

$6.4 \times 10^{-2} + .47 \times 10^{-2}$
 6.87×10^{-2}

10. $(5.92 \times 10^{14}) - (3 \times 10^{12})$

$5.92 \times 10^{14} - 0.03 \times 10^{14}$
 5.89×10^{14}

11. $(3 \times 10^7) \times (1 \times 10^2)$

3×10^9

12. $(4 \times 10^{-3}) \times (5 \times 10^6)$

$20 \times 10^{3+1} = 2 \times 10^4$

13. $(6 \times 10^{-12}) \times (7 \times 10^{-9})$

$42 \times 10^{-21+1} = 4.2 \times 10^{-20}$

14. $(8 \times 10^5) \times (8 \times 10^5)$

$64 \times 10^{10+1} = 6.4 \times 10^{11}$

15. $(2 \times 10^{-3}) \times (1.1 \times 10^2)$

2.2×10^{-1}

16. $(9 \times 10^{-7}) \times (2.5 \times 10^3)$

$22.5 \times 10^{-4+1} = 2.25 \times 10^{-3}$

17. $(8 \times 10^5) \div (4 \times 10^5)$

2×10^0

18. $(9 \times 10^7) \div (3 \times 10^2)$

3×10^5

19. $(8.4 \times 10^{-4}) \div (2.1 \times 10^{-6})$

4×10^2

20. $(7.5 \times 10^{-5}) \div (3 \times 10^{-3})$

2.5×10^{-2}

21. $(2.3 \times 10^6) \div (4.6 \times 10^{-9})$

$0.5 \times 10^{15-1} = 5 \times 10^{14}$

22. $(6.8 \times 10^{-14}) \div (8.5 \times 10^{10})$

$0.8 \times 10^{-24-1} = 8 \times 10^{-25}$