

1. Change the number to a power of 10.  
1 hundredth
2. Change the number to a power of 10.  
ten thousand
3. Write the number in standard form for scientific notation.  
8.30
4. Write the number in standard form for scientific notation.  
8.20
5. Write the number in standard form for scientific notation.  
4.70
6. Write the number in standard form for scientific notation.  
1.50
7. Write the number in standard form for scientific notation.  
7.10
8. Write the number in standard form for scientific notation.  
6.70
9. Write the number in standard form for scientific notation.  
3.30
10. Write the number in standard form for scientific notation.  
5.40
11. Estimate the scientific notation expression, and then check with a calculator.  
 $(2.0 \times 10^{-3})(4.5 \times 10^{-4})$

12. Estimate the scientific notation expression, and then check with a calculator.

$$(2.0 \times 10^0)(2.5 \times 10^1)$$

13. Estimate the scientific notation expression, and then check with a calculator.

$$(8.0 \times 10^{-3})(7.0 \times 10^0)$$

14. Estimate the scientific notation expression, and then check with a calculator.

$$(9.0 \times 10^{-2})(4.0 \times 10^{-5})$$

15. Estimate the scientific notation expression, and then check with a calculator.

$$(5.0 \times 10^3)(1.5 \times 10^{-1})$$

16. Estimate the scientific notation expression, and then check with a calculator.

$$(2.0 \times 10^{-1})(4.5 \times 10^{-4})$$

17. Estimate the scientific notation expression, and then check with a calculator.

$$(4.0 \times 10^{-4})(4.0 \times 10^{-3})$$

18. Estimate the scientific notation expression, and then check with a calculator.

$$(5.0 \times 10^{-5})(5.0 \times 10^{-5})$$

19. Estimate the scientific notation expression, and then check with a calculator.

$$\frac{5.4 \times 10^4}{0.9 \times 10^1}$$

20. Estimate the scientific notation expression, and then check with a calculator.

$$\frac{7.2 \times 10^6}{0.8 \times 10^3}$$

21. Estimate the scientific notation expression, and then check with a calculator.

$$\frac{2.1 \times 10^{-2}}{0.3 \times 10^{-1}}$$

22. Estimate the scientific notation expression, and then check with a calculator.

$$\frac{4.6 \times 10^8}{2.3 \times 10^{-2}}$$

23. Estimate the scientific notation expression, and then check with a calculator.

$$\frac{2.1 \times 10^4}{0.7 \times 10^{-1}}$$

24. Estimate the scientific notation expression, and then check with a calculator.

$$\frac{6.4 \times 10^9}{3.2 \times 10^3}$$

25. Estimate the scientific notation expression, and then check with a calculator.

$$\frac{3.0 \times 10^{-3}}{1.0 \times 10^{-1}}$$

26. Estimate the scientific notation expression, and then check with a calculator.

$$\frac{4.2 \times 10^{-12}}{0.7 \times 10^{-3}}$$

27. Write the expression in standard form for scientific notation.

$$90\bar{0} \times 10^4$$

28. Write the expression in standard form for scientific notation.

$$90\bar{0} \times 10^4$$

29. Write the expression in standard form for scientific notation.

$$0.06\bar{0} \times 10^{-1}$$

30. Write the expression in standard form for scientific notation.  
 $0.03\bar{0} \times 10^{-5}$

31. Write the expression in standard form for scientific notation.  
 $40\bar{0} \times 10^5$

32. Write the expression in standard form for scientific notation.  
 $60\bar{0} \times 10^5$

33. Write the expression in standard form for scientific notation.  
 $60\bar{0} \times 10^{-2}$

34. Write the expression in standard form for scientific notation.  
 $0.03\bar{0} \times 10^{-6}$

35. Write the expression in standard form for scientific notation.  
 $0.05\bar{0} \times 10^0$

36. Write the expression in standard form for scientific notation.  
 $0.04\bar{0} \times 10^5$

37. Write the expression in standard form for scientific notation.  
 $0.07\bar{0} \times 10^5$

38. Write the expression in standard form for scientific notation.  
 $0.03\bar{0} \times 10^2$

39. Write the expression in standard form for scientific notation.  
 $0.03\bar{0} \times 10^0$

**Answer Key**

1.  $10^{-2}$
2.  $10^4$
3.  $8.30 \times 10^0$
4.  $8.20 \times 10^0$
5.  $4.70 \times 10^0$
6.  $1.50 \times 10^0$
7.  $7.10 \times 10^0$
8.  $6.70 \times 10^0$
9.  $3.30 \times 10^0$
10.  $5.40 \times 10^0$
11.  $9.0 \times 10^{-7}$
12.  $5.0 \times 10^1$
13.  $5.6 \times 10^{-2}$
14.  $3.6 \times 10^{-6}$
15.  $7.5 \times 10^2$
16.  $9.0 \times 10^{-5}$
17.  $1.6 \times 10^{-6}$
18.  $2.5 \times 10^{-9}$
19.  $6.0 \times 10^3$
20.  $9.0 \times 10^3$
21.  $7.0 \times 10^{-1}$
22.  $2.0 \times 10^{10}$
23.  $3.0 \times 10^5$
24.  $2.0 \times 10^6$
25.  $3.0 \times 10^{-2}$
26.  $6.0 \times 10^{-9}$
27.  $9.00 \times 10^6$
28.  $9.00 \times 10^6$
29.  $6.0 \times 10^{-3}$
30.  $3.0 \times 10^{-7}$
31.  $4.00 \times 10^7$
32.  $6.00 \times 10^7$
33.  $6.00 \times 10^0$
34.  $3.0 \times 10^{-8}$

35.  $5.0 \times 10^{-2}$

36.  $4.0 \times 10^3$

37.  $7.0 \times 10^3$

38.  $3.0 \times 10^0$

39.  $3.0 \times 10^{-2}$