

# Grade 8 Scientific Notation Worksheet

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_

Convert each number to or from scientific notation.

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- $4 \times 10^3$  ?  $9 \times 10^4$  (>, <, or =)  
\_\_\_\_\_
- Simplify:  $(9 \times 10^2) \times 10^1$ . What is the new exponent? ( $9 \times 10^{\_}$ )  
\_\_\_\_\_
- Write 2,000,000 in scientific notation. What is the coefficient? ( $\_ \times 10^6$ )  
\_\_\_\_\_
- Write 7,000,000 in scientific notation. What is the coefficient? ( $\_ \times 10^6$ )  
\_\_\_\_\_
- Write 900,000 in scientific notation. What is the coefficient? ( $\_ \times 10^5$ )  
\_\_\_\_\_
- Write 9,000,000 in scientific notation. What is the coefficient? ( $\_ \times 10^6$ )  
\_\_\_\_\_
- Simplify:  $(4 \times 10^3) \times 10^1$ . What is the new exponent? ( $4 \times 10^{\_}$ )  
\_\_\_\_\_
- Write 500,000 in scientific notation. What is the exponent? ( $5 \times 10^{\_}$ )  
\_\_\_\_\_
- $5 \times 10^4$  ?  $3 \times 10^6$  (>, <, or =)  
\_\_\_\_\_
- Write 60,000 in scientific notation. What is the exponent? ( $6 \times 10^{\_}$ )  
\_\_\_\_\_
- $6 \times 10^4$  ?  $9 \times 10^3$  (>, <, or =)  
\_\_\_\_\_
- $7 \times 10^6$  ?  $1 \times 10^6$  (>, <, or =)  
\_\_\_\_\_
- Write 80,000 in scientific notation. What is the coefficient? ( $\_ \times 10^4$ )  
\_\_\_\_\_
- What is  $7 \times 10^4$  in standard form?  
\_\_\_\_\_
- Simplify:  $(6 \times 10^2) \times 10^3$ . What is the new exponent? ( $6 \times 10^{\_}$ )  
\_\_\_\_\_
- Simplify:  $(3 \times 10^2) \times 10^1$ . What is the new exponent? ( $3 \times 10^{\_}$ )  
\_\_\_\_\_
- Write 40,000,000 in scientific notation. What is the coefficient? ( $\_ \times 10^7$ )  
\_\_\_\_\_
- Write 50,000,000 in scientific notation. What is the exponent? ( $5 \times 10^{\_}$ )  
\_\_\_\_\_
- What is  $1 \times 10^2$  in standard form?  
\_\_\_\_\_
- Write 4,000,000 in scientific notation. What is the coefficient? ( $\_ \times 10^6$ )  
\_\_\_\_\_
- Write 800,000 in scientific notation. What is the exponent? ( $8 \times 10^{\_}$ )  
\_\_\_\_\_

22.  $2 \times 10^5$  ?  $3 \times 10^6$  (>, <, or =)

\_\_\_\_\_

25. Write 3,000,000 in scientific notation. What is the coefficient? ( $\_ \times 10^6$ )

\_\_\_\_\_

28. Write 1,000,000 in scientific notation. What is the exponent? ( $1 \times 10^{\_}$ )

\_\_\_\_\_

23. What is  $8 \times 10^2$  in standard form?

\_\_\_\_\_

26.  $1 \times 10^3$  ?  $8 \times 10^4$  (>, <, or =)

\_\_\_\_\_

29. Write 900 in scientific notation. What is the coefficient? ( $\_ \times 10^2$ )

\_\_\_\_\_

24. Write 9,000 in scientific notation. What is the exponent? ( $9 \times 10^{\_}$ )

\_\_\_\_\_

27. Simplify:  $(4 \times 10^2) \times 10^3$ . What is the new exponent? ( $4 \times 10^{\_}$ )

\_\_\_\_\_

30. Write 60,000,000 in scientific notation. What is the exponent? ( $6 \times 10^{\_}$ )

\_\_\_\_\_

ANSWER KEY

# Grade 8 Scientific Notation Worksheet

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- $4 \times 10^3$  ?  $9 \times 10^4$  (>, <, or =)  
<
- Simplify:  $(9 \times 10^2) \times 10^1$ . What is the new exponent? ( $9 \times 10^{\_}$ )  
**3**
- Write 2,000,000 in scientific notation. What is the coefficient? ( $\_ \times 10^6$ )  
**2**
- Write 7,000,000 in scientific notation. What is the coefficient? ( $\_ \times 10^6$ )  
**7**
- Write 900,000 in scientific notation. What is the coefficient? ( $\_ \times 10^5$ )  
**9**
- Write 9,000,000 in scientific notation. What is the coefficient? ( $\_ \times 10^6$ )  
**9**
- Simplify:  $(4 \times 10^3) \times 10^1$ . What is the new exponent? ( $4 \times 10^{\_}$ )  
**4**
- Write 500,000 in scientific notation. What is the exponent? ( $5 \times 10^{\_}$ )  
**5**
- $5 \times 10^4$  ?  $3 \times 10^6$  (>, <, or =)  
<
- Write 60,000 in scientific notation. What is the exponent? ( $6 \times 10^{\_}$ )  
**4**
- $6 \times 10^4$  ?  $9 \times 10^3$  (>, <, or =)  
>
- $7 \times 10^6$  ?  $1 \times 10^6$  (>, <, or =)  
>
- Write 80,000 in scientific notation. What is the coefficient? ( $\_ \times 10^4$ )  
**8**
- What is  $7 \times 10^4$  in standard form?  
**70000**
- Simplify:  $(6 \times 10^2) \times 10^3$ . What is the new exponent? ( $6 \times 10^{\_}$ )  
**5**
- Simplify:  $(3 \times 10^2) \times 10^1$ . What is the new exponent? ( $3 \times 10^{\_}$ )  
**3**
- Write 40,000,000 in scientific notation. What is the coefficient? ( $\_ \times 10^7$ )  
**4**
- Write 50,000,000 in scientific notation. What is the exponent? ( $5 \times 10^{\_}$ )  
**7**

19. What is  $1 \times 10^2$  in standard form?  
**100**
20. Write 4,000,000 in scientific notation. What is the coefficient? ( $\_ \times 10^6$ )  
**4**
21. Write 800,000 in scientific notation. What is the exponent? ( $8 \times 10^{\_}$ )  
**5**
22.  $2 \times 10^5$  ?  $3 \times 10^6$  (>, <, or =)  
**<**
23. What is  $8 \times 10^2$  in standard form?  
**800**
24. Write 9,000 in scientific notation. What is the exponent? ( $9 \times 10^{\_}$ )  
**3**
25. Write 3,000,000 in scientific notation. What is the coefficient? ( $\_ \times 10^6$ )  
**3**
26.  $1 \times 10^3$  ?  $8 \times 10^4$  (>, <, or =)  
**<**
27. Simplify:  $(4 \times 10^2) \times 10^3$ . What is the new exponent? ( $4 \times 10^{\_}$ )  
**5**
28. Write 1,000,000 in scientific notation. What is the exponent? ( $1 \times 10^{\_}$ )  
**6**
29. Write 900 in scientific notation. What is the coefficient? ( $\_ \times 10^2$ )  
**9**
30. Write 60,000,000 in scientific notation. What is the exponent? ( $6 \times 10^{\_}$ )  
**7**