

Grade 8 Exponents Worksheet

Name: _____ Date: _____ Score: _____

Evaluate each exponent. Write your answer on the line.

1. Evaluate: 5^4

2. Evaluate: 2^3

3. What is the exponent when 4,000,000 is written in scientific notation ($4 \times 10^?$)?

4. What is the exponent when 7,000,000 is written in scientific notation ($7 \times 10^?$)?

5. Evaluate: 4^4

6. What is the exponent when 5,000 is written in scientific notation ($5 \times 10^?$)?

7. Evaluate: 4^2

8. Write in standard form: 2×10^5

9. Write in standard form: 1×10^8

10. Write in standard form: 9×10^3

11. Write in standard form: 6×10^8

12. Write in standard form: 5×10^3

13. What is the exponent when 900,000 is written in scientific notation ($9 \times 10^?$)?

14. Evaluate: 3^4

15. What is the exponent when 2,000 is written in scientific notation ($2 \times 10^?$)?

16. Evaluate: 2^4

17. Write in standard form: 1×10^5

18. Evaluate: 5^2

19. Write in standard form: 7×10^4

20. Evaluate: 3^3

21. Write in standard form: 8×10^5

22. Write in standard form: 9×10^5

23. Evaluate: 4^3

24. Evaluate: 3^2

25. Write in standard form: 9×10^4

26. Evaluate: 2^2

27. Write in standard form: 4×10^3

28. Write in standard form: 7×10^7

29. Write in standard form: 8×10^6

30. Write in standard form: 4×10^7

31. Write in standard form: 6×10^3

32. What is the exponent when 8,000,000 is written in scientific notation ($8 \times 10^?$)?

33. What is the exponent when 500,000 is written in scientific notation ($5 \times 10^?$)?

34. Write in standard form: 2×10^4

35. Evaluate: 5^3

36. What is the exponent when 600,000 is written in scientific notation ($6 \times 10^?$)?

37. What is the exponent when 9,000 is written in scientific notation ($9 \times 10^?$)?

38. What is the exponent when 80,000 is written in scientific notation ($8 \times 10^?$)?

39. Write in standard form: 3×10^7

40. What is the exponent when 30,000 is written in scientific notation ($3 \times 10^?$)?

ANSWER KEY

Grade 8 Exponents Worksheet

- Evaluate: 5^4
625
- Evaluate: 2^3
8
- What is the exponent when 4,000,000 is written in scientific notation ($4 \times 10^?$)?
6
- What is the exponent when 7,000,000 is written in scientific notation ($7 \times 10^?$)?
6
- Evaluate: 4^4
256
- What is the exponent when 5,000 is written in scientific notation ($5 \times 10^?$)?
3
- Evaluate: 4^2
16
- Write in standard form: 2×10^5
200000
- Write in standard form: 1×10^8
100000000
- Write in standard form: 9×10^3
9000
- Write in standard form: 6×10^8
600000000
- Write in standard form: 5×10^3
5000
- What is the exponent when 900,000 is written in scientific notation ($9 \times 10^?$)?
5
- Evaluate: 3^4
81
- What is the exponent when 2,000 is written in scientific notation ($2 \times 10^?$)?
3
- Evaluate: 2^4
16
- Write in standard form: 1×10^5
100000
- Evaluate: 5^2
25
- Write in standard form: 7×10^4
70000
- Evaluate: 3^3
27
- Write in standard form: 8×10^5
800000
- Write in standard form: 9×10^5
900000
- Evaluate: 4^3
64
- Evaluate: 3^2
9

25. Write in standard form: 9×10^4
90000
26. Evaluate: 2^2
4
27. Write in standard form: 4×10^3
4000
28. Write in standard form: 7×10^7
70000000
29. Write in standard form: 8×10^6
8000000
30. Write in standard form: 4×10^7
40000000
31. Write in standard form: 6×10^3
6000
32. What is the exponent when 8,000,000 is written in scientific notation ($8 \times 10^?$)?
6
33. What is the exponent when 500,000 is written in scientific notation ($5 \times 10^?$)?
5
34. Write in standard form: 2×10^4
20000
35. Evaluate: 5^3
125
36. What is the exponent when 600,000 is written in scientific notation ($6 \times 10^?$)?
5
37. What is the exponent when 9,000 is written in scientific notation ($9 \times 10^?$)?
3
38. What is the exponent when 80,000 is written in scientific notation ($8 \times 10^?$)?
4
39. Write in standard form: 3×10^7
30000000
40. What is the exponent when 30,000 is written in scientific notation ($3 \times 10^?$)?
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