



# Math Worksheet for 5th Grade

## Powers of 10

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

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### Questions

1. What is  $10^1$ ?
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2. What is  $10^2$ ?
3. What is  $10^3$ ?
4. What is  $10^4$ ?
5. What is  $10^5$ ?
6. What is  $10^0$ ?
7. Write 6,000 as a  $x \times 10^n$ .
8. Write 500 as a  $x \times 10^n$ .
9. Evaluate  $3 \times 10^2$ .
10. Evaluate  $7 \times 10^3$ .
11. Find  $23 \times 10$ .
12. Find  $23 \times 100$ .
13. Find  $450 \div 10$ .
14. Find  $4,500 \div 100$ .
15. What is  $1 \times 10^3$ ?
16. Write  $10^6$  as a standard number.
17. Write 100,000 in exponential form with base 10.
18. How many zeros are in  $10^7$ ?
19. What is  $9 \times 10^1$ ?
20. What is  $0 \times 10^3$ ?
21. Convert  $2 \times 10^4$  to standard form.
22. Convert  $8 \times 10^2$  to standard form.
23. Write 40,000 as a  $x \times 10^n$  where  $1 \leq x < 10$ .
24. Write 90 as a  $x \times 10^n$ .
25. Evaluate  $10^3 \times 10^2$ .
26. Evaluate  $10^4 \div 10^2$ .
27. Evaluate  $(5 \times 10^3) \div 10^2$ .
28. Evaluate  $(2 \times 10^2) \times 10$ .
29. Find  $10^2 + 10^2$ .
30. If you move a number's decimal point one place to the right, by which power of 10 did you multiply it?



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31. A box contains  $3 \times 10^2$  marbles. How many marbles is that?
32. A city has a population of  $6 \times 10^5$  people. Write this in standard form.
33. The school choir has  $4 \times 10^1$  students. How many students is that?
34. A car drives  $7 \times 10^1$  kilometers. How many kilometers is that?
35. Lily has  $5 \times 10^2$  cents. How many dollars is that? (100 cents = \$1)
36. Multiply:  $(4 \times 10^3) \times 2$ . Give the answer in standard form.
37. Divide:  $(6 \times 10^3) \div 3$ . Give the answer in standard form.
38. Simplify  $10^1 \times 10^3$ .
39. Which is larger:  $3 \times 10^4$  or  $2 \times 10^5$ ? Explain by comparing standard forms.
40. Fill in the blank:  $1,000 = 1 \times 10$ —
41. A factory makes  $2 \times 10^3$  toy cars each week. How many toy cars in 4 weeks?
42. An ant is about  $1 \times 10^0$  centimeter long. How many centimeters is that?
43. A book costs  $\$3 \times 10^1$ . How much is the book in dollars?
44. In a model, a star is shown as being  $5 \times 10^4$  kilometers away. How many kilometers is that?
45. Write 300,000 as a standard number and as a  $\times 10^n$  form.
46. A bag contains  $9 \times 10^2$  candies. If you eat 100 candies, how many are left?
47. Express 7,000 in the form  $a \times 10^n$ .
48. If you divide a number by  $10^2$ , how many places does the decimal point move and in which direction?
49. Rewrite 50 as a  $\times 10^n$  with  $1 < a < 10$ .
50. Town A has  $1 \times 10^4$  people and Town B has  $5 \times 10^3$  people. How many people are there in both towns together?