



Name: _____

Date: _____

1. What is 10^4 ?

10493

11335

11052

10000

2. $6.9 \times 100 =$ ____**3.** $560 \div 100 =$ ____**4.** 10^3 is 1 followed by how many zeros?**5.** Write 1000 as a power of 10. 3^{10} 10^4 10^2 10^3 **6.** 10^4 means: $10 \times 10 \times 10 \times 10$ $10 \times 10 \times 10 \times 10 \times 10$ 4×4 10×4



7. $1.6 \times 10 = ?$

8. The chart shows 45, then 45×10 . Multiplying by 10 shifts every digit one place to the ____.

Hundreds	Tens	Ones
	4	5
4	5	0

right

down

up

left

9. The place-value chart shows 45 shifted for $\times 100$. What is 45×100 ?

Thousands	Hundreds	Tens	Ones
		4	5
4	5	0	0

10. What is 10^3 ?

1402

1351

995

1000



11. $6 \times 100 = \underline{\hspace{2cm}}$

12. $690 \div 100 = \underline{\hspace{2cm}}$

13. 10^5 is 1 followed by how many zeros?

14. $6.2 \times 10 = ?$

15. The chart shows 21, then 21×10 . Multiplying by 10 shifts every digit one place to the ____.

Hundreds	Tens	Ones
	2	1
2	1	0

down

right

up

left



16. The place-value chart shows 19 shifted for $\times 10$. What is 19×10 ?

Hundreds	Tens	Ones
	1	9
1	9	0

17. $6.8 \times 1000 = \underline{\hspace{2cm}}$

18. $880 \div 100 = \underline{\hspace{2cm}}$



Answer Key

1. **10000** $10^4 = 1$ followed by 4 zeros = 10000.
2. **690** Multiplying by 100 moves the decimal point right: $6.9 \times 100 = 690$.
3. **5.6** Dividing by 100 moves the decimal point left: $560 \div 100 = 5.6$.
4. **3** 10^3 has 3 zeros.
5. **10^3** $1000 = 10^3$.
6. **$10 \times 10 \times 10 \times 10$** $10^4 = 10 \times 10 \times 10 \times 10 = 10000$.
7. **16** $1.6 \times 10 = 16$.
8. **left** $\times 10$ makes each digit worth ten times more, so it moves one column left: $45 \rightarrow 450$.
9. **4500** $45 \times 100 = 4500$.
10. **1000** $10^3 = 1$ followed by 3 zeros = 1000.
11. **600** Multiplying by 100 moves the decimal point right: $6 \times 100 = 600$.
12. **6.9** Dividing by 100 moves the decimal point left: $690 \div 100 = 6.9$.
13. **5** 10^5 has 5 zeros.
14. **62** $6.2 \times 10 = 62$.
15. **left** $\times 10$ makes each digit worth ten times more, so it moves one column left: $21 \rightarrow 210$.
16. **190** $19 \times 10 = 190$.
17. **6800** Multiplying by 1000 moves the decimal point right: $6.8 \times 1000 = 6800$.
18. **8.8** Dividing by 100 moves the decimal point left: $880 \div 100 = 8.8$.