

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



## MULTIPLYING EXPONENTS WITH THE SAME BASE

The Product Property

$$a^b \times a^c = a^{b+c}$$

**PART I:** Use the product property to solve each of the following. The first problem has already been solved for you.

1.  $4^3 \times 4^2 = 4^5$

7.  $5^9 \times 5^5 = \underline{\hspace{2cm}}$

2.  $2^5 \times 2^3 = \underline{\hspace{2cm}}$

8.  $14^{19} \times 14^{11} = \underline{\hspace{2cm}}$

3.  $9^5 \times 9^5 = \underline{\hspace{2cm}}$

9.  $6^{16} \times 6^6 = \underline{\hspace{2cm}}$

4.  $3^3 \times 3^4 = \underline{\hspace{2cm}}$

10.  $10^{13} \times 10^{14} = \underline{\hspace{2cm}}$

5.  $11^2 \times 11^{10} = \underline{\hspace{2cm}}$

11.  $7^7 \times 7^{21} = \underline{\hspace{2cm}}$

6.  $8^4 \times 8^8 = \underline{\hspace{2cm}}$

12.  $16^{24} \times 16^{19} = \underline{\hspace{2cm}}$

**PART II:** Use the product property to solve each of the following. The first problem has already been solved for you.

13.  $x^3 \times x^7 = x^{10}$

19.  $y^{20} \times y^{10} = \underline{\hspace{2cm}}$

14.  $a^6 \times a^2 = \underline{\hspace{2cm}}$

20.  $s^{23} \times s^6 = \underline{\hspace{2cm}}$

15.  $y^3 \times y^3 = \underline{\hspace{2cm}}$

21.  $x^{49} \times x^{51} = \underline{\hspace{2cm}}$

16.  $x^7 \times x^5 = \underline{\hspace{2cm}}$

22.  $c^{33} \times c^{51} = \underline{\hspace{2cm}}$

17.  $b^{13} \times b^9 = \underline{\hspace{2cm}}$

23.  $f^9 \times f^{10} = \underline{\hspace{2cm}}$

18.  $m^{11} \times m^{15} = \underline{\hspace{2cm}}$

24.  $w^{36} \times w^3 = \underline{\hspace{2cm}}$



# Lesson Exponents 9 1 Practice And Problem Solving A B

**Anthony S. Fauci**



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