

# Exponents Rules

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

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

Rewrite each expression using product rule.

1)  $7^4 \times 7^{14} =$  \_\_\_\_\_

2)  $13^3 \times 13^7 =$  \_\_\_\_\_

3)  $4^{12} \times 4^3 =$  \_\_\_\_\_

4)  $11^5 \times 11^9 =$  \_\_\_\_\_

5)  $2^7 \times 2^{11} =$  \_\_\_\_\_

6)  $2^{15} \times 2^4 =$  \_\_\_\_\_

7)  $3^6 \times 3^8 =$  \_\_\_\_\_

8)  $3^7 \times 3^{11} =$  \_\_\_\_\_

9)  $6^{14} \times 6^3 =$  \_\_\_\_\_

10)  $7^8 \times 7^5 =$  \_\_\_\_\_

11)  $2^7 \times 2^{13} =$  \_\_\_\_\_

12)  $9^{14} \times 9^3 =$  \_\_\_\_\_

13)  $8^4 \times 8^7 =$  \_\_\_\_\_

14)  $5^4 \times 5^{14} =$  \_\_\_\_\_

15)  $13^8 \times 13^8 =$  \_\_\_\_\_

16)  $8^9 \times 8^2 =$  \_\_\_\_\_

17)  $2^{13} \times 2^4 =$  \_\_\_\_\_

18)  $2^{11} \times 2^5 =$  \_\_\_\_\_

19)  $20^{10} \times 20^{10} =$  \_\_\_\_\_

20)  $6^7 \times 6^6 =$  \_\_\_\_\_

# Exponents Rules

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

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

Rewrite each expression using product rule.

$$1) 7^4 \times 7^{14} = \underline{7^{18}}$$

$$2) 13^3 \times 13^7 = \underline{13^{10}}$$

$$3) 4^{12} \times 4^3 = \underline{4^{15}}$$

$$4) 11^5 \times 11^9 = \underline{11^{14}}$$

$$5) 2^7 \times 2^{11} = \underline{2^{18}}$$

$$6) 2^{15} \times 2^4 = \underline{2^{19}}$$

$$7) 3^6 \times 3^8 = \underline{3^{14}}$$

$$8) 3^7 \times 3^{11} = \underline{3^{18}}$$

$$9) 6^{14} \times 6^3 = \underline{6^{17}}$$

$$10) 7^8 \times 7^5 = \underline{7^{13}}$$

$$11) 2^7 \times 2^{13} = \underline{2^{20}}$$

$$12) 9^{14} \times 9^3 = \underline{9^{17}}$$

$$13) 8^4 \times 8^7 = \underline{8^{11}}$$

$$14) 5^4 \times 5^{14} = \underline{5^{18}}$$

$$15) 13^8 \times 13^8 = \underline{13^{16}}$$

$$16) 8^9 \times 8^2 = \underline{8^{11}}$$

$$17) 2^{13} \times 2^4 = \underline{2^{17}}$$

$$18) 2^{11} \times 2^5 = \underline{2^{16}}$$

$$19) 20^{10} \times 20^{10} = \underline{20^{20}}$$

$$20) 6^7 \times 6^6 = \underline{6^{13}}$$