

# Exponents Rules

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

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

Rewrite each expression using quotient rule.

1)  $53^{30} \div 53^9 =$  \_\_\_\_\_

2)  $75^{34} \div 75^4 =$  \_\_\_\_\_

3)  $34^{22} \div 34^{18} =$  \_\_\_\_\_

4)  $78^{27} \div 78^3 =$  \_\_\_\_\_

5)  $11^{35} \div 11^2 =$  \_\_\_\_\_

6)  $97^{31} \div 97^{15} =$  \_\_\_\_\_

7)  $25^{26} \div 25^{16} =$  \_\_\_\_\_

8)  $56^{24} \div 56^{17} =$  \_\_\_\_\_

9)  $86^{21} \div 86^{17} =$  \_\_\_\_\_

10)  $10^{37} \div 10^{13} =$  \_\_\_\_\_

11)  $67^{32} \div 67^{16} =$  \_\_\_\_\_

12)  $52^{28} \div 52^{20} =$  \_\_\_\_\_

13)  $6^{39} \div 6^{14} =$  \_\_\_\_\_

14)  $98^{20} \div 98^3 =$  \_\_\_\_\_

15)  $47^{36} \div 47^{25} =$  \_\_\_\_\_

16)  $77^{29} \div 77^{12} =$  \_\_\_\_\_

17)  $43^{25} \div 43^{19} =$  \_\_\_\_\_

18)  $8^{33} \div 8^{11} =$  \_\_\_\_\_

19)  $54^{38} \div 54^{12} =$  \_\_\_\_\_

20)  $49^{18} \div 49^4 =$  \_\_\_\_\_

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Rewrite each expression using quotient rule.

1)  $53^{30} \div 53^9 = \underline{53^{21}}$

2)  $75^{34} \div 75^4 = \underline{75^{30}}$

3)  $34^{22} \div 34^{18} = \underline{34^4}$

4)  $78^{27} \div 78^3 = \underline{78^{24}}$

5)  $11^{35} \div 11^2 = \underline{11^{33}}$

6)  $97^{31} \div 97^{15} = \underline{97^{16}}$

7)  $25^{26} \div 25^{16} = \underline{25^{10}}$

8)  $56^{24} \div 56^{17} = \underline{56^7}$

9)  $86^{21} \div 86^{17} = \underline{86^4}$

10)  $10^{37} \div 10^{13} = \underline{10^{24}}$

11)  $67^{32} \div 67^{16} = \underline{67^{16}}$

12)  $52^{28} \div 52^{20} = \underline{52^8}$

13)  $6^{39} \div 6^{14} = \underline{6^{25}}$

14)  $98^{20} \div 98^3 = \underline{98^{17}}$

15)  $47^{36} \div 47^{25} = \underline{47^{11}}$

16)  $77^{29} \div 77^{12} = \underline{77^{17}}$

17)  $43^{25} \div 43^{19} = \underline{43^6}$

18)  $8^{33} \div 8^{11} = \underline{8^{22}}$

19)  $54^{38} \div 54^{12} = \underline{54^{26}}$

20)  $49^{18} \div 49^4 = \underline{49^{14}}$