

Name: _____

Date: _____

Exponents Rules

Rewrite each expression using power rule.

1) $(3^4)^4 =$ 3¹⁶

11) $(6^6)^4 =$ _____

2) $(7^7)^3 =$ _____

12) $(11^7)^4 =$ _____

3) $(10^4)^3 =$ _____

13) $(7^6)^3 =$ _____

4) $(6^6)^3 =$ _____

14) $(15^4)^1 =$ _____

5) $(8^6)^1 =$ _____

15) $(5^5)^3 =$ _____

6) $(4^8)^5 =$ _____

16) $(3^4)^1 =$ _____

7) $(9^5)^3 =$ _____

17) $(3^7)^6 =$ _____

8) $(13^3)^3 =$ _____

18) $(9^3)^1 =$ _____

9) $(8^6)^4 =$ _____

19) $(12^7)^4 =$ _____

10) $(14^3)^3 =$ _____

20) $(10^4)^3 =$ _____

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Exponents Rules

Rewrite each expression using power rule.

1) $(3^4)^4 = \underline{\underline{3^{16}}}$

11) $(6^6)^4 = \underline{\underline{6^{24}}}$

2) $(7^7)^3 = \underline{\underline{7^{21}}}$

12) $(11^7)^4 = \underline{\underline{11^{28}}}$

3) $(10^4)^3 = \underline{\underline{10^{12}}}$

13) $(7^6)^3 = \underline{\underline{7^{18}}}$

4) $(6^6)^3 = \underline{\underline{6^{18}}}$

14) $(15^4)^1 = \underline{\underline{15^4}}$

5) $(8^6)^1 = \underline{\underline{8^6}}$

15) $(5^5)^3 = \underline{\underline{5^{15}}}$

6) $(4^8)^5 = \underline{\underline{4^{40}}}$

16) $(3^4)^1 = \underline{\underline{3^4}}$

7) $(9^5)^3 = \underline{\underline{9^{15}}}$

17) $(3^7)^6 = \underline{\underline{3^{42}}}$

8) $(13^3)^3 = \underline{\underline{13^9}}$

18) $(9^3)^1 = \underline{\underline{9^3}}$

9) $(8^6)^4 = \underline{\underline{8^{24}}}$

19) $(12^7)^4 = \underline{\underline{12^{28}}}$

10) $(14^3)^3 = \underline{\underline{14^9}}$

20) $(10^4)^3 = \underline{\underline{10^{12}}}$