

Exponents Rules

Name: _____

Date: _____

Rewrite each expression using product rule.

1) $16^5 \times 16^7 =$ _____

2) $3^8 \times 3^7 =$ _____

3) $9^4 \times 9^{10} =$ _____

4) $10^5 \times 10^5 =$ _____

5) $8^6 \times 8^9 =$ _____

6) $5^2 \times 5^3 =$ _____

Rewrite each expression using quotient rule.

1) $5^6 \div 5^7 =$ _____

2) $8^5 \div 8^4 =$ _____

3) $9^8 \div 9^2 =$ _____

4) $13^9 \div 13^6 =$ _____

5) $14^5 \div 14^3 =$ _____

6) $3^5 \div 3^2 =$ _____

Rewrite each expression using power rule.

1) $(10^5)^3 =$ _____

2) $(9^4)^3 =$ _____

3) $(4^7)^2 =$ _____

4) $(19^9)^1 =$ _____

5) $(6^{10})^1 =$ _____

6) $(2^8)^2 =$ _____

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Rewrite each expression using product rule.

1) $16^5 \times 16^7 = \underline{16^{12}}$

2) $3^8 \times 3^7 = \underline{3^{15}}$

3) $9^4 \times 9^{10} = \underline{9^{14}}$

4) $10^5 \times 10^5 = \underline{10^{10}}$

5) $8^6 \times 8^9 = \underline{8^{15}}$

6) $5^2 \times 5^3 = \underline{5^5}$

Rewrite each expression using quotient rule.

1) $5^6 \div 5^7 = \underline{\frac{1}{5^1}}$

2) $8^5 \div 8^4 = \underline{8^1}$

3) $9^8 \div 9^2 = \underline{9^6}$

4) $13^9 \div 13^6 = \underline{13^3}$

5) $14^5 \div 14^3 = \underline{14^2}$

6) $3^5 \div 3^2 = \underline{3^3}$

Rewrite each expression using power rule.

1) $(10^5)^3 = \underline{10^{15}}$

2) $(9^4)^3 = \underline{9^{12}}$

3) $(4^7)^2 = \underline{4^{14}}$

4) $(19^9)^1 = \underline{19^9}$

5) $(6^{10})^1 = \underline{6^{10}}$

6) $(2^8)^2 = \underline{2^{16}}$