

Exponents Quotient Rule

Name: _____ Score: _____

Use the quotient rule and answer in a single exponent.

$$10^{10} \div 10^2 =$$

$$9^7 \div 9^3 =$$

$$14^{12} \div 14^4 =$$

$$3^3 \div 3^1 =$$

$$4^{15} \div 4^{12} =$$

$$7^{11} \div 7^3 =$$

$$8^{11} \div 8^9 =$$

$$2^{11} \div 2^2 =$$

$$16^8 \div 16^2 =$$

$$20^7 \div 20^2 =$$

$$13^{17} \div 13^{12} =$$

$$1^{99} \div 1^{90} =$$

$$17^6 \div 17^2 =$$

$$30^{10} \div 30^5 =$$

$$5^{14} \div 5^5 =$$

$$9^{14} \div 9^8 =$$

$$6^{12} \div 6^3 =$$

$$10^{13} \div 10^9 =$$

$$11^{17} \div 11^9 =$$

$$12^{10} \div 12^3 =$$

$$10^{11} \div 10^2 =$$

Answers

Use the quotient rule and answer in a single exponents.

$$10^{10} \div 10^2 = 10^8$$

$$9^7 \div 9^3 = 9^4$$

$$14^{12} \div 14^4 = 14^8$$

$$3^3 \div 3^1 = 3^2$$

$$4^{15} \div 4^{12} = 4^3$$

$$7^{11} \div 7^3 = 7^8$$

$$8^{11} \div 8^9 = 8^2$$

$$2^{11} \div 2^2 = 2^9$$

$$16^8 \div 16^2 = 16^6$$

$$20^7 \div 20^2 = 20^5$$

$$13^{17} \div 13^{12} = 13^5$$

$$1^{99} \div 1^{90} = 1^9$$

$$17^6 \div 17^2 = 17^4$$

$$30^{10} \div 30^5 = 30^5$$

$$5^{14} \div 5^5 = 5^9$$

$$9^{14} \div 9^8 = 9^6$$

$$6^{12} \div 6^3 = 6^9$$

$$10^{13} \div 10^9 = 10^4$$

$$11^{17} \div 11^9 = 11^8$$

$$12^{10} \div 12^3 = 12^7$$

$$10^{11} \div 10^2 = 10^9$$