

Exponents Product Rule

Name: _____ Score: _____

Use the product rule and answer in a single exponent.

$$12^{14} \times 12^2 =$$

$$8^5 \times 8^3 =$$

$$13^3 \times 13^3 =$$

$$5^8 \times 5^1 =$$

$$3^8 \times 3^3 =$$

$$8^{15} \times 8^3 =$$

$$6^3 \times 6^2 =$$

$$2^7 \times 2^2 =$$

$$16^9 \times 16^3 =$$

$$4^5 \times 4^6 =$$

$$10^6 \times 10^8 =$$

$$1^1 \times 1^5 =$$

$$14^3 \times 14^2 =$$

$$30^{20} \times 30^5 =$$

$$3^9 \times 3^5 =$$

$$7^{11} \times 7^8 =$$

$$5^7 \times 5^3 =$$

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

$$11^{20} \times 11^{12} =$$

$$7^{11} \times 7^2 =$$

$$19^4 \times 19^3 =$$

Answers

Use the product rule and answer in a single exponents.

$$12^{14} \times 12^2 = 12^{16}$$

$$8^5 \times 8^3 = 8^8$$

$$13^3 \times 13^3 = 13^6$$

$$5^8 \times 5^1 = 5^9$$

$$3^8 \times 3^3 = 3^{11}$$

$$8^{15} \times 8^3 = 8^{18}$$

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

$$2^7 \times 2^2 = 2^9$$

$$16^9 \times 16^3 = 16^{12}$$

$$4^5 \times 4^6 = 4^{11}$$

$$10^6 \times 10^8 = 10^{14}$$

$$1^1 \times 1^5 = 1^6$$

$$14^3 \times 14^2 = 14^5$$

$$30^{20} \times 30^5 = 30^{25}$$

$$3^9 \times 3^5 = 3^{14}$$

$$7^{11} \times 7^8 = 7^{19}$$

$$5^7 \times 5^3 = 5^{10}$$

$$8^{14} \times 8^9 = 8^{23}$$

$$11^{20} \times 11^{12} = 11^{32}$$

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

$$19^4 \times 19^3 = 19^7$$