

# Exponents Product Rule

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

Use the product rule and answer in a single exponent.

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

$$9^2 \times 9^3 =$$

$$15^4 \times 15^3 =$$

$$4^3 \times 4^1 =$$

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

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

$$5^5 \times 5^2 =$$

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

$$19^8 \times 19^2 =$$

$$3^7 \times 3^6 =$$

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

$$1^4 \times 1^5 =$$

$$13^6 \times 13^2 =$$

$$20^{10} \times 20^5 =$$

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

$$9^{10} \times 9^8 =$$

$$6^8 \times 6^3 =$$

$$9^{13} \times 9^9 =$$

$$10^{30} \times 10^{12} =$$

$$7^{10} \times 7^2 =$$

$$18^3 \times 18^3 =$$

# Answers

Use the product rule and answer in a single exponents.

$$11^{10} \times 11^2 = 11^{12}$$

$$9^2 \times 9^3 = 9^5$$

$$15^4 \times 15^3 = 15^7$$

$$4^3 \times 4^1 = 4^4$$

$$4^7 \times 4^3 = 4^{10}$$

$$7^{10} \times 7^3 = 7^{13}$$

$$5^5 \times 5^2 = 5^7$$

$$2^6 \times 2^2 = 2^8$$

$$19^8 \times 19^2 = 19^{10}$$

$$3^7 \times 3^6 = 3^{13}$$

$$10^8 \times 10^8 = 10^{16}$$

$$1^4 \times 1^5 = 1^9$$

$$13^6 \times 13^2 = 13^8$$

$$20^{10} \times 20^5 = 20^{15}$$

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

$$9^{10} \times 9^8 = 9^{18}$$

$$6^8 \times 6^3 = 6^{11}$$

$$9^{13} \times 9^9 = 9^{22}$$

$$10^{30} \times 10^{12} = 10^{42}$$

$$7^{10} \times 7^2 = 7^{12}$$

$$18^3 \times 18^3 = 18^6$$