NAME _____

Lesson 1.2 Equivalent Expressions with Exponents

Rewrite each multiplication or division expression using a base and an exponent.

	a	b
1.	$4^3 \times 4^5 =$ _____	$9^2 \times 9^3 =$ _____
2.	$(3 \times 3 \times 3) \times (3 \times 3) =$ _____	$5^6 \div 5^3 =$ _____
3.	$8^5 \div 8 =$ _____	$(2 \times 2 \times 2 \times 2) \div (2 \times 2) =$ _____
4.	$(5 \times 5) \times (5 \times 5) =$ _____	$9^9 \div 9^5 =$ _____
5.	$10^3 \times 10 =$ _____	$6^5 \div 6^2 =$ _____
6.	$4^3 \div 4^2 =$ _____	$(7 \times 7 \times 7) \div 7 =$ _____
7.	$11^5 \times 11^2 =$ _____	$6 \times 6^5 =$ _____
8.	$(8 \times 8 \times 8 \times 8) \div (8 \times 8) =$ _____	$5^3 \times 5^2 =$ _____
9.	$12^9 \times 12^2 =$ _____	$11^{10} \div 11^4 =$ _____
10.	$3^4 \times 3^4 =$ _____	$(4 \times 4 \times 4 \times 4) \div 4 =$ _____
11.	$(5 \times 5 \times 5) \div 5 =$ _____	$6^8 \times 6^4 =$ _____
12.	$4^{12} \div 4^6 =$ _____	$3^3 \times 3^9 =$ _____
13.	$(6 \times 6 \times 6 \times 6) \div (6 \times 6 \times 6) =$ _____	$15^8 \div 15^3 =$ _____
14.	$9^9 \times 9^6 =$ _____	$7^8 \times 7^2 =$ _____
15.	$2^7 \div 2 =$ _____	$4^{11} \times 4 =$ _____