* Exponent — the exponent tells us how many times to multiply the base by itself.

$$2^{4} = 2 \cdot 2 \cdot 2 \cdot 2 = 16$$
 $5^{2} = 5 \cdot 5 = 25$
 C_{Bose}

* Exponent 1 - any number with the exponent 1 is equal to the number itself.

* Exponent 0 — any number with the exponent 0 is equal to 0.

	0 .	0,
2°21	7°=1	100°=1

1. Name the base and the exponent for: 9^{5} a. Base: 9b. Exponent: 52. Name the base and the exponent for: 1_{e}^{1} a. Base: eb. Exponent: 1

4. Use the definition of exponents as indicated repeated multiplication to simplify:

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5. Use the definition of exponents to expand each of the following expressions. Then multiply according to the rule for multiplication.

6. Use the definition of exponents to expand each of the following expressions. Then multiply according to the rule for multiplication.