EXPONENTIATION MULTIPLICATION DEFINITION Meaning Example Example Meaning numbers umaet by pepeated Multin Repeated Addn
3+3+3+3 5th power of 3 · Starting at O Five 3's 3.3.3.3.3 o repeated add'n PRODUCT OF POWERS a 21 a 22 = a 21+22 annan 'aa = aaaaaa POWER OF POWER $(\alpha^{\chi_1})^{\chi_2} = \alpha^{\chi_1 \chi_2}$ MULT" IS COMMUTATIVE Three 51s Five 3's a aaaa • aaaaa • aaaaa AAA · AAA · AAA · AAA · AAA POWER OF PRODUCT $(ab)^{x} = a^{x}.b^{x}$ DISTRIBUTIVE PROPERTY Five 3's + Five 4 Five (3+4)'s aaaaa bbbbb ab ab ab ab ab