

Name _____ Per _____
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EE.1 EXPONENTS

Factor - A number that divides another number without remainder
Ex: 6 is a factor of 42

Base - A number multiplied by itself the number of times shown
by an exponent

Exponent - A raised number telling how many times another
number, the base, is being multiplied by itself

Power - An exponent

Squared - Raised to the power of 2:

EX: $3^2 = 3 \text{ squared} = 3 \times 3 = 9$

Cubed - Raised to the power of 3:

EX: $5^3 = 5 \text{ cubed} = 5 \times 5 \times 5 = 125$

EX: $4^5 = 4 \times 4 \times 4 \times 4 \times 4 = 1024$

****Base = 4 x 5 Factors of 4**

** Numbers with exponents can be written in three different forms:

1) Exponential Notation: to write the base with an
exponent attached.

EX: 9^4

2) Expanded Form: to write the multiplication problem
out, listing all the factors:

EX: $9 \times 9 \times 9 \times 9$

3) Standard Form: to write the answer with numbers

EX: 6,561