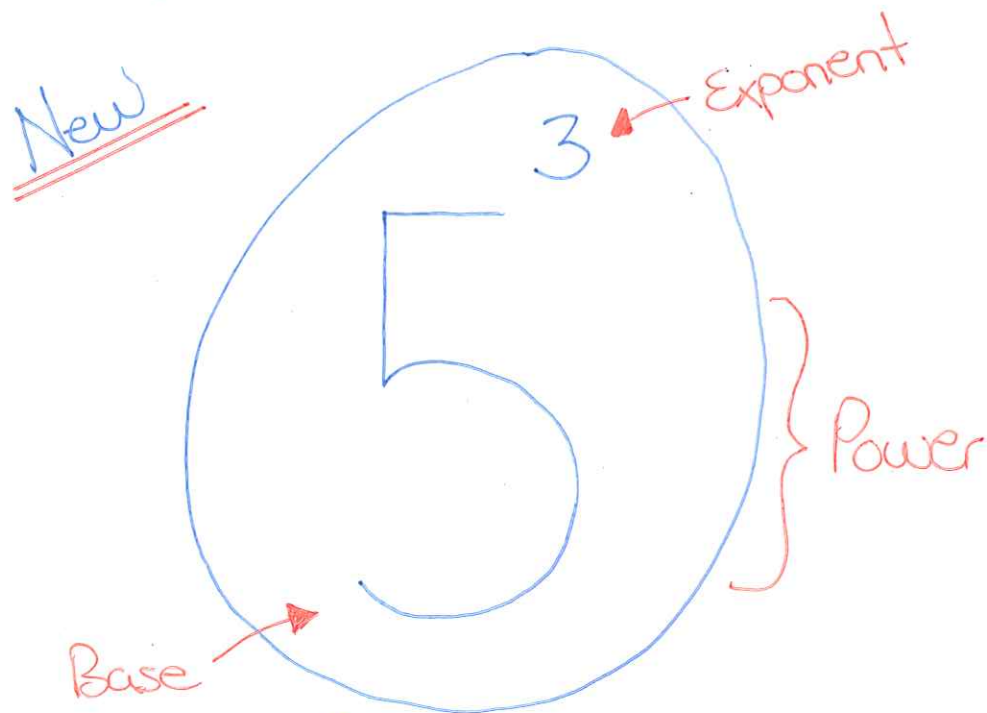


2.1 Powers and ExponentsReview

Addition: $3+3+3 = 9$

Multiplication: 3×3 or 3 groups of 3 = 9
(repeated addition)

Powers: 3^2 or $3 \times 3 = 9$
(repeated multiplication)

 5^3 is a power of 5 $5^3 \rightarrow 5$ to the 3rd or
5 to the power 3

$5^3 = 5$ to the 3rd power
5 to the power 3
5 cubed

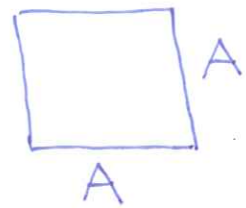
$2^4 = 2$ to the 4th (power)
2 to the power 4

* Keyboard/calculator input/output *

$2^4 \rightarrow 2^4$

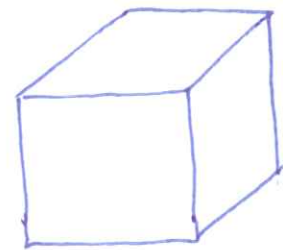
Squares² ; Cubes³

Square = A^2



Area = $A \cdot A = A^2$

Cubed = A^3



Volume = $A \cdot A \cdot A = A^3$

Forms

Exponential Form: 3^5

Repeated Multiplication: $3 \cdot 3 \cdot 3 \cdot 3 \cdot 3$

Standard Form: 243

Negative Signs

$(-2)^2$ is NOT -2^2

$(-2)^2$: negative 2 all squared

$$(-2)^2 = (-2)(-2) = \boxed{+4}$$

$$-2^2 = -(2)(2) = \boxed{-4}$$

HW

A

7-9

B

11-14

C

20-21