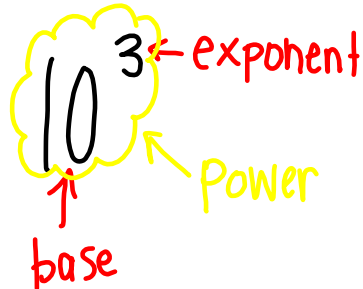


Exponents

9/14

* Represent Repeated Multiplication *

$$\text{ex) } 10^3 = 10 \cdot 10 \cdot 10$$

Vocabulary

Sep 10-9:42 AM

How to read powers:

- 10 to the fifth power = 10^5
 $10 \cdot 10 \cdot 10 \cdot 10 \cdot 10$

- 10 Squared = 10^2
 \hookrightarrow 10 to the 2nd power



$$10 \times 10$$

$$10^2$$

- 10 cubed = 10^3
 \hookrightarrow 10 to the 3rd power



$$10 \cdot 10 \cdot 10$$

$$10^3$$

- 10 to the 7th power = 10^7 10^7
 $10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$

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Rewrite using exponents:

$$\textcircled{1} 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 = 3^5$$

$$\textcircled{2} b \cdot b \cdot b \cdot b = b^4$$

$$\textcircled{3} [b \cdot b \cdot b] + [3 \cdot 3 \cdot 3] = b^3 + 3^3$$

$$\textcircled{3a) } b \cdot b \cdot b \cdot 3 \cdot 3 \cdot 3 = b^3 \cdot 3^3$$

$$\textcircled{3b) } \underbrace{b + b + b}_{3b} + 3 + 3 + 3 \quad \text{No exponents w/ addition}$$

$$\textcircled{4} \underbrace{5 \cdot 5}_{5^2} \cdot \underbrace{7 \cdot 7}_{7^2} \cdot \underbrace{b \cdot b}_{b^2} = 5^2 \cdot 7^2 \cdot b^2$$

$$\textcircled{5} 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot f \cdot f \cdot g = 3^5 \cdot f^2 \cdot g$$

Sep 10-11:08 AM

Evaluate:

$$\textcircled{1} 4^2 = 16$$

$$\textcircled{2} 4^5 = 1024$$

$$\textcircled{3} 0.4^3 = 0.064$$

$$\textcircled{4} \frac{2^5}{3} = \frac{32}{3}$$

Calc

① Base

② y^x (below off)

③ Exponent

④ =

Sep 9-9:34 AM