

1) Watch this video on logarithms: <https://youtu.be/zzu2POfYv0Y?si=U0pzPLJqHToS4cCS>

Translate to exponential form.

2) $\text{Log}_4(64) = 3$ _____

3) $\text{Log}_{10}(.0001) = -4$ _____

4) $\text{Log}_8(32768) = x$ _____

5) Solve for x for #4.

6) Watch this video on properties of logarithms: https://youtu.be/Jtv9Lnf7Zw8?si=A66xwTF3fz2F6_b

7) Describe, in your own words, the three properties of logarithms.

a. $\text{Log}(a^n)$

b. $\text{Log}(a * b)$

c. $\text{Log}(a \div b)$

8) Rewrite the logarithms using the properties described in the video.

a. $\text{Log}(4x)$

b. $\text{Log}(x^8)$

c. $\text{Log}\left(\frac{n}{7}\right)$