

CONVERT TO binary

÷ by 2 over & over

$$2 \times 1000 \times 1000$$

$$2 \times 2^{10} \times 2^{10}$$

if SUPER EVEN
 2^{21}

SAME idea - highest power of 2

÷ by 1024 is power of 2

Solve for N using logs $\rightarrow 2^n = 2,097,152$

$$2^{10} = 1024 \sim 1000$$

USE logs

$$2,000,000 = 1000 \times 1000 \times 1000$$

$$y = 2^x \quad \& \quad y = 2,097,152$$

Factor-nspire

$\log_b \# = + \text{INTEGER}$

\div by a # you know is a SUPER EVEN

Same
Thing found 2^{10} & again

Take $\sqrt{\quad} \rightarrow \sqrt{\text{big \#}} \rightarrow \text{odd power of } 2$

$\times \sqrt{2} \quad \times$
 $\uparrow \quad \uparrow$

2^x & Table $\rightarrow 2^{21}$

$y = \frac{2,097,152}{2^x}$ & check Table for
1