in a series of Geometrice progrestimele quien the 1" term of. = 3,929.326 the n' ofterms t = 10 He last term l = 5, 366, 786 required the ratio

Given the values above, what could the variables present?

How would you determine the value of r ?

in a series of Geometrice progrestimels quien the 1" term of. = 3,929.326 the n' ofterms t = 10 He last term l = 5, 366. 786 required the ratio from the nature of ecometrical progression we have this equation 1xr'=l. then r'= f and log.rxt = Log. l. _ Log. j Log.r = Log. l. _ Log. j

What properties of logs are being used here ?

in a series of Geometrice progrestimele quien the 1" term of. = 3,929.326 the n' ofterms t = 10 He last term l = 5, 366. 786 required the valio from the nature of ecometrical progression we have this equation 1xr'=l. then r'= f and log.rxt = Log. l. _ Log. i Log.r = Log. l. _ Log. i Log f. 6. 7297 142 1353962 +10. 0135396 = Log. ~= Log. 1.031667 = +

Does your answer agree with this one ?

+10. 0135396 = Log. ~= Log. 1.031667 = + quen 1 = 3,929.326 3,929,326×2= 7.858,652 T = 1.031667

Can you explain the problem the person is trying to set up next ?

+10. 0135396 = Log. ~= Log. 1.031667 = + quen 1 = 3,929,326 3,929,326×2= 7,858,652 = 1.031667

Can you explain the problem the person is trying to set up next ?

Can you find t?

$$\frac{1353962}{410. 0135396} = Log. T = Log. 9 + 1.031667 = T$$

since $f = 3.929.326$
 $l = 3.929.326 \times 2 = 7.858.652$
 $T = 1.031667$
squind t
 $fxr = l \quad T = \frac{l}{f} \quad Log. T. \times t = Log. l. - Log. f.$
 $Log. l. 6.8953480$
 $Log. l. 6.8953480$
 $Log. T = \frac{Log. t. - Log. f.}{Log. T}$
 $Log. T = \frac{Log. t. - Log. f.}{Log. T}$
 $Log. T = \frac{Log. t. - Log. f.}{Log. T}$

Compare your answer...

These calculations were related to the census numbers and were made by Thomas Jefferson. What was he trying to determine ?

the Centus of 1791. was 3929.326. vanting 70, 474 of 4. millions that of 1801. is 5,366, 786. includ: 10,000 for Mary? & 100,000. Termine

30 the Census of 1791. was 3929.326. vanting 70, 474 of 4. million of 1801. is 5,365, 786. inder? 10,000 for Mary? & 100,000. Tomis that calling the 1" four millions & the Oast 5,000,000 in 10. years it is in the geometrical ratio of 2's Arannum and qued take better 31. years to Kouble in a series of Geometrice progressionals quien the 1" term of = 3,929.326 the n' ofterms t = 10 He last term C = 5, 366, 786 required the valio from the nature of exometrical progression we have this equation. fxr'=l. then r'= " and log.rxt = Log. l. - Log. f Log.r = Log. l. - Log. f Log fel 6.7297142 201. 6.5943180 .1353962 +10. 0135396 = Log. ~= Log. 1.031667 = + quen 1 = 3,929.326 l= 3,929,326×2= 7.858,652 T = 1.031667 equine t 1x+= l += + Log + xt = Log l. - Log f. t = 103 1 - 208 b Log. 7 Log. C. 6.8953 480 Log. + 6. 5943180 thick + by log. + . 0135396 gover 22.23

(1791) United States Census, Census Calculations, and 1801. [Manuscript/Mixed Material] Retrieved from the Library of Congress, <u>https://www.loc.gov/it</u> <u>em/mtjbib005818/</u>.

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