ST THOMAS SCHOOL, DHURWA,RANCHI

ONLINE HOME WORK

SUB: Maths Class:X

1. Find the 8^{th} term of the sequence: 3/4,3/2,3,…….
2. Find the GP whose first term is 64 and the next term is 32.
3. The 5^{th} , 8^{th} and 11^{th} terms of a GP are p,q and r respectively. Show that q^2=pr.
4. If a,b and c are in GP ,prove that loga,logb and logc are in AP.
5. Find the sum of 8 terms of the GP: 3+6+12+24+……
6. Find how many terms of GP $\frac{2}{9}$ - $\frac{1}{3}$ +$\frac{1}{2}$ …….. must be added to get the Sum equal to $\frac{55}{72}$.
7. A boy spends Rs. 10 on first day , Rs. 20 on second day, Rs. 40 on third day and so on.find how much , in all , will he spend in 12 days?
8. A geometric progression has common ratio =3 and last term = 486. If the sum of its terms is 728; find its first term.
9. The sum of three numbers in G.P. is $\frac{39}{10}$ and their product is 1. Find the number.
10. Find a G.P. for which the sum of first two terms is -4 and the fifth term is 4 times the third term.

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