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## SEQUENCES AND SERIES

SEQUENCE	ES AND SERIES		CM110801
1. If 5 <sup>th</sup> term of a G.P. is 2, then the product of first 9 terms is:			
(a) 256	(b) 128	(c) 512	(d) None
2. If a, b, c are in G.P. and x, y are with arithmetic mean of a, b and b, c respectively, then $\frac{1}{x} + \frac{1}{y}$ is equal to:			
(a) $\frac{2}{b}$	(b) $\frac{3}{b}$	(c) $\frac{b}{3}$	(d) None
3. If the third term of a G.P. is 3, then the product of its first 5 terms is:			
(a) 15	(b) 81	(c) 243	(d) Cannot be determined
4. If the p <sup>th</sup> , q <sup>th</sup> and r <sup>th</sup> terms of G.P. are a, b and c respectively. Then $a^{q-r}b^{r-p}c^{p-q}$ is sequal to:			
(a) 0	(b) 1	(c) 2	(d) -1
5. Find the number of terms between 200 and 400 which are divisible by 7.			
(a) 23	(b) 27	(c) 28	(d) 29
6. Insert 3 A.M's between 3 and 19.			
7. Find a G.P. for which sum of the first two terms is -4 and fifth term is 4 times the third term.			
8. The value of n so that $\frac{a^{n+1}+b^{n+1}}{a^{n}+b^{n}}$ may be the geometric mean between a and b.			
9. Find sum of n terms : 4 + 44 + 444 +			
12. Find the sum of 50 terms of a sequence : 7, 7.7, 7.77, 7.777,			
13. The arithmetic mean between two numbers is 10 and their geometric mean is 8. Find the numbers.			
14. The first term of a G.P. is 2 and the sum to infinity is 6. Find the common ratio.			
15. Evaluate : 0.2	345.		