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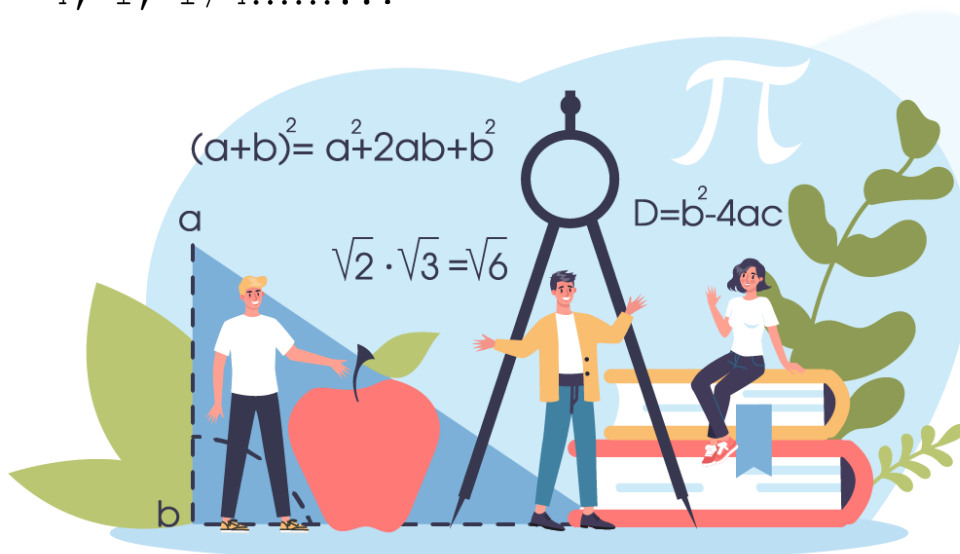
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## GEOMETRIC SEQUENCES WORKSHEET

1. Find the geometric mean of 25 and 36.
2. What is the common ratio of the geometric series 4, 1,  $1/4$ ,  $1/16$ ,  $1/64$ ,  $1/256$  .....
3. What is the 7<sup>th</sup> term of the geometric series 64, 16, 4, 1,  $1/4$ .....?



4. Find the sum of the infinite geometric series 3,  $3/2$ ,  $3/4$ ,  $3/8$ , .....
5. What is the ratio of the second and the fifth term of the series 0.2, 0.02, 0.002, .....
6. The third term of the geometric series is 18 and the fifth term of the geometric series is 162. Find the first four terms of the series.
7. What is the sum of the first 10 terms of the geometric series 12, 6, 3,  $3/2$ ,  $3/4$ ,....?
8. The ratio of the tenth and the eighth term of a geometric series is 25. What is the common ratio of the geometric series?

9. The third term of the geometric series is 45 and the fifth term of the geometric series is 405. Find the first term and the common ratio of the geometric series.
10. What is the sum of the geometric series  $5 + 0.5 + 0.05 + 0.005 + \dots$ ?



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in an interesting way,  
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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	30
2)	$\frac{1}{4}$
3)	$1 / 64$
4)	6
5)	1000
6)	2, 6, 18, 54,.....

7)	$24(1 - (1/2)^{10})$
8)	5
9)	$a = 5, r = 3$
10)	5.55555