

ⓘ Students have either already taken or started taking this quiz, so take care when editing it. If you change any quiz questions in a significant way, you might want to consider re-grading students' quizzes who took the old version of the quiz.

Points 100  **Published****Details****Questions**☐ Show question details

## Group 1

Group Name

Pick 4 questions, 5 pts per question Pick  questions,  pts per question

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Question 1 pts



What are the next three terms in the sequence 2, 3, 7, 11, 13, ...

- ☐ 17,19,23
- ☐ 17,21,23
- ☐ 17,22,23
- ☐ 17,19,24



Question 1 pts



What are the next three terms in the sequence: 6, 12, 20, 30, ...

- ☐ 42,56,72
- ☐ 42,56,68
- ☐ 42,56,74
- ☐ 42,54,72



Question 1 pts



The next term of the sequence: 0.02, 0.06, 0.18... is?

- ☐ 0.54
- ☐ 0.00034
- ☐ 0.054
- ☐ 0.0054



Question 1 pts



If  $a = 3$ ,  $r = 2$ , then the  $n$ th term of the G.P is

- ☐  $3 \cdot 2^{(n-1)}$
- ☐  $2 \cdot 3^{(n-1)}$
- ☐  $3^n$
- ☐  $2^n$



Question 1 pts



A sequence of numbers whose reciprocals form an arithmetic progression is called the

- ☐ Harmonic progression
- ☐ Geometric progression
- ☐ Complex Progression
- ☐ None of the above



## Group

Group Name

Pick 5 questions, 10 pts per question Pick  questions,  pts per

question



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Question 1 pts



Find the sum of the first 10 terms of the following series:

$$3+7+11+\dots$$

- ☐ 210
- ☐ 200
- ☐ 220
- ☐ 190



Question 1 pts



What is the infinite sum of the series:

$$1 + \frac{1}{3} + \frac{1}{9} + \frac{1}{27} + \frac{1}{81} + \dots$$

- ☐ 3/2
- ☐ 2
- ☐ 3
- ☐ 2/3



Question 1 pts



Insert three numbers between 1 and 256 so that the resulting sequence is a Geometric Progression.

The numbers are?

- ☐ 4,16,64
- ☐ 5,25,125
- ☐ 3,27,81



Question 1 pts



What is the infinite sum of the following series?

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \dots$$

- ☐ 1
- ☐ 2
- ☐ 0.5
- ☐ 1.5



Question 1 pts



In an arithmetic series, the sum of the first ten terms is 120. If the first term is 3, what is the 15th term?

- ☐ 31
- ☐ 41
- ☐ 28
- ☐ 27



Question 1 pts



If the arithmetic and geometric mean of two numbers  $a$  and  $b$  are 10 and 8 respectively, then the numbers are:

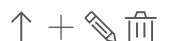
- ☐  $a=4$  and  $b=16$
- ☐  $a=6$  and  $b=14$
- ☐  $a=8$  and  $b=12$
- ☐  $a=2$  and  $b=18$



## Group 3

 Pick 2 questions, 15 pts per question Pick  questions,  pts per

question






Question 1 pts



What is the sum of n terms of the sequence 8, 88, 888, 8888, ...

- a.  $\frac{80}{81}[10^n - 1] - \frac{8}{9}n$
- b.  $\frac{70}{81}[10^n - 1] - \frac{8}{9}n$
- c.  $[10^n - 1] - \frac{8}{9}n$
- d. None of the above

☐ a

☐ b

☐ c

☐ d



Question 1 pts



The sum of the first three terms of a GP is  $13/12$  and their product is  $-1$ . Then find the common ratio.

- ☐  $-3/4$  or  $-4/3$
- ☐  $3/4$  or  $-4/3$
- ☐  $-3/4$  or  $4/3$
- ☐ None of the given



Question 1 pts



The second term of GP is 4 and the fourth term is 8. What is the 11th term of the GP? given that the common ratio is a positive number.

- ☐  $64\sqrt{2}$
- ☐  $16\sqrt{2}$
- ☐ 128
- ☐ 81

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