GCSE Grade Guide: 5

# Geometric Sequences



Section A: Circle all the geometric sequences below.

1, 1, 2, 3, 5, 8, ... 6000, 3000, 1500, ...

1, 3, 6, 10, 15, ...

 $1, \frac{1}{2}, \frac{1}{4}, \frac{1}{2}, \dots$ 

-8, -16, -32, -64, ...

x, x+1, x+2, x +3, ...

10, 100, 1000, 10000, ... -1, 1, -1, 1, -1, ...

4. 6. 9. 13.5. ...

5, 10, 15, 20, ... 0.1, 0.2, 0.3, 0.4, ...

a, 2a, 4a, 8a, ...

Now finish the sentence:

A geometric series

Section B: Find the common ratio of the geometric sequences.

1) 5, 20, 80, 320, ...

- - 6) 1, ?, 9, ?, 81, ...

2) 1, -5, 25, -125, 625, ...

7)  $1, \frac{1}{3}, \frac{1}{9}, \frac{1}{27}, \dots$ 

3) 3, 4.5, 6.75, 10.125, ...

8) 10, 2, 0.4, 0.125, ...

4) 3.2, 6.4, 12.8, 25.6, ...

9) x, x<sup>2</sup>, x<sup>3</sup>, x<sup>4</sup>, ...

5) 6000, 600, 60, 6, ...

10) -7, -14, -28, -56, -112, ...

Section C: Fill the gaps in these geometric sequences.

- 1) 2. . 200. , 20000, ... 6)
- , 12, -36,

2) , 15, 75,

7) 8, ,8,

3) 1, 4, , , ...

- 8)  $\frac{1}{3}$ ,  $\frac{1}{12}$ ,
- , 189, ...
- 9) 4096, 512,

5) 200, , 50, , ...

10) -20, -100,

Section D: Show me...

- 1) A sequence with a common ratio of 6
- 2) A decreasing aeometric seauence
- A sequence with a common ratio of -2

# **Geometric Sequence And Series Calculus Worksheet**

J Rink

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