Special Sequences *fluency*

ANSWERS

Find the next two terms

1 3, 6, 12, 24, …
48, 96

2 2, 6, 18, …
54, 162

3 80, 40, 20, …
10, 5

4 1, 4, 16, …
64, 256

5 5, −10, 20, …
−40, 80

6 0.5, 1, 2, …
4, 8

Find the common ratio

7 2, 10, 50, …
5

8 64, 16, 4, …
0.25

9 3, −6, 12, …
−2

10 1, 1.5, 2.25, …
1.5

11 100, 10, 1, …
0.1

12 −2, 8, −32, …
−4

Each term is the two terms before it added together. Find the next two terms.

13 1, 4, 5, 9, …
14, 23

14 3, 3, 6, 9, …
15, 24

15 2, 7, 9, 16, …
25, 41

16 5, 1, 6, 7, …
13, 20

17 0.5, 2, 2.5, 4.5, …
7, 11.5

18 −3, 5, 2, 7, …
9, 16

Find the next two terms

19 1, 4, 9, 16, …
25, 36

20 1, 8, 27, 64, …
125, 216

21 1, 3, 6, 10, …
15, 21

22 2, 5, 10, 17, …
26, 37

23 0, 3, 8, 15, …
24, 35

24 2, 9, 28, 65, …
126, 217

Name the type of sequence

25 4, 12, 36, 108, …
geometric

26 7, 11, 15, 19, …
arithmetic

27 1, 3, 6, 10, 15, …
triangular numbers

28 2, 3, 5, 8, 13, …
Fibonacci type

29 1, 8, 27, 64, …
cube numbers

30 1, 4, 9, 16, 25, …
square numbers