

Sequences and Series

EXTRA PRACTICE

Find a pattern first, and then you will be able to figure out what numbers come next in the sequence.

1. Write down what operation is being performed on the following sequences of numbers:

- a) 4, 7, 10, 13, 16: _____ b) 2, 4, 6, 8, 10: _____
c) 60, 58, 56, 54: _____ d) 21, 31, 41, 51: _____
e) 3, 6, 12, 24: _____ f) 2, 6, 18, 54, 162: _____
g) 2000, 200, 20, 2: _____ h) 45, 51, 57, 63: _____
i) 74, 70, 66, 62: _____ j) 0.5, 5, 50, 500: _____

2. Write down what operation is being performed or what special sequence of numbers are shown:

- a) 3, 5, 7, 11: _____ b) 1, 8, 27, 64: _____
c) 66, 77, 88, 99: _____ d) 1, 3, 6, 10, 15: _____
e) 10, 21, 32, 43: _____ f) 54, 43, 32, 21: _____
g) 0.1, 1, 10, 100: _____ h) 25, 36, 49, 64: _____
i) -2, -1, 0, 1: _____ j) 1, -2, 4, -8: _____

3. Write down the next number in each of the sequences below:

- a) 4, 12, 20, 28, _____ b) 1, -4, 16, -64, _____ c) 13, 18, 13, 8, _____
d) 5, 15, 25, 35, _____ e) 6, 5, 4, 3, _____ f) 64, 81, 100, 121, _____
g) 90, 30, 10, _____ h) 11, 13, 17, 19, _____ i) 99, 90, 81, 72, _____
j) 12, 25, 38, 51, _____ k) 10, 15, 21, 28, _____ l) 0, -3, -6, -9, _____
m) 100, 88, 76, 64, _____ n) 0.1, 2, 40, 800, _____ o) 40, 20, 10, 5, _____

4. Write down the next number in each of the sequences below:

- a) 30, 24, 18, 12, _____ b) 7, 4, 1, -2, _____ c) 10, 1, 0.1, 0.01, _____
d) -2, 6, -18, 54, _____ e) 20, 27, 34, 41, _____ f) 10, -20, 40, -80, _____
g) 4, 12, 36, 108, _____ h) 2, 10, 50, 250, _____ i) 99, 66, 33, _____
j) 2, 8, 32, 128, _____ k) 600, 400, 200, _____ l) 2, 3, 5, 7, 11, _____