1. (a) Write down the next term in this sequence.

5 9 13 17 .....

.....

(1)

(b) Describe the rule for continuing the sequence.

.....

.....

(1)

---

2. (a) Write down the next term in this sequence.

2 6 18 54 .....

.....

(1)

(b) Describe the rule for continuing the sequence.

.....

.....

(1)

---

3. (a) Write down the next term in this sequence.

256 128 64 32 .....

.....

(1)

(b) Describe the rule for continuing the sequence.

.....

.....

(1)

LIVEWORKSHEETS

4. Write down the next two numbers in this sequence.

7 8 10 13 ....

..... and .....

(1)

---

5. Write down the next two numbers in this sequence.

2 5 11 23 ....

..... and .....

(1)

---

6. Here are the first five terms of a number sequence.

9 15 21 27 33

(a) (i) Write down the next term of the number sequence.

.....

(1)

(ii) Explain how you found your answer.

.....

.....

(1)

302 is **not** a term in this number sequence.

(b) Explain why.

.....

.....

(1)

LIVEWORKSHEETS

7. Here are the first four terms of a number sequence.

8 12 16 20

(a) (i) Write down the next term in the sequence.

.....

(1)

(ii) Explain how you found your answer.

.....

.....

(1)

(b) Write down the 9th term in the sequence.

.....

(1)

Ricky says 1001 is in the sequence.

(c) Explain why Ricky is wrong.

.....

.....

.....

(1)

---

8. Here are the first 4 terms in a number sequence.

132 124 116 108

(a) Write down the next two terms in this number sequence.

..... and .....

(1)

11 cannot be a term in this number sequence.

(b) Explain why.

.....

.....

(1)

LIVEWORKSHEETS

9. Here are the first five terms of a number sequence.

3 8 13 18 23

(a) Work out the 10th term of this number sequence.

.....

(2)

Here are the first four terms of another number sequence.

−2 4 10 16

(b) Find **two** numbers that are in both number sequences.

.....

(2)

---

10. Here is a number sequence.
The rule for finding the next term is to add a, where a is an integer.

8 29

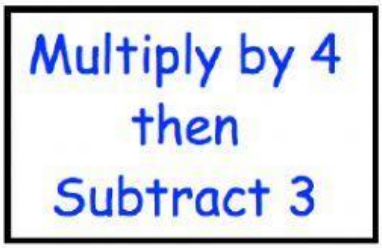
Work out the two missing terms.

..... and .....

(2)

LIVEWORKSHEETS

11. (a) The first term of a sequence is −5
The rule for continuing the sequence.



What is the second term of the sequence?

.....

(1)

(b) Here is a rule for continuing a different sequence.



The second term of this sequence is 20.
What is the first term?

.....

(2)

LIVEWORKSHEETS

12. Here is a sequence

1 3 17 115

To find the next term the rule is

multiply by *a* and then subtract *b*, where *a* and *b* are integers.

Find the values of *a* and *b*.

a = ...

b = ...

(2)

---

13. Write down the next term in the sequence.

2a + b 3a + 5b 4a + 9b

.....

(2)

LIVEWORKSHEETS