1 A linear sequence starts

$$3 \qquad 6 \qquad 9 \qquad 12 \qquad \ldots$$

Work out an expression for the nth term of the sequence.　　**[1 marks]**

Answer _____

2 A linear sequence starts

$$6 \qquad 8 \qquad 10 \qquad 12 \qquad \ldots$$

Work out an expression for the nth term of the sequence.　　**[2 marks]**

Answer _____

3 A linear sequence starts

$$2 \qquad 5 \qquad 8 \qquad 11 \qquad \ldots$$

Work out an expression for the nth term of the sequence.　　**[2 marks]**

Answer _____

5

4   A linear sequence starts

9   13   17   21   …

Work out an expression for the nth term of the sequence.   **[2 marks]**

Answer _____

5   A linear sequence starts

7   8   9   10   …

Work out an expression for the nth term of the sequence.   **[2 marks]**

Answer _____

6   A linear sequence starts

2   7   12   17   …

Work out an expression for the nth term of the sequence.   **[2 marks]**

Answer _____

7 A linear sequence starts

50 56 62 68 …

Work out an expression for the nth term of the sequence. **[2 marks]**

Answer

8 A linear sequence starts

-3 7 17 27 …

Work out an expression for the nth term of the sequence. **[2 marks]**

Answer

9 A linear sequence starts

4 4.5 5 5.5 …

Work out an expression for the nth term of the sequence. **[2 marks]**

Answer

$\frac{}{12}$

Turn over ►

10 A linear sequence starts

9   7   5   3   …

Work out an expression for the nth term of the sequence. **[2 marks]**

Answer

11 A linear sequence starts

15   11   7   3   …

Work out an expression for the nth term of the sequence. **[2 marks]**

Answer

12 A linear sequence starts

9   4   −1   −6   …

Work out an expression for the nth term of the sequence. **[2 marks]**

Answer

Solutions

13 A linear sequence starts

1   –8   –17   –26   …

Work out an expression for the nth term of the sequence.   **[2 marks]**

Answer

14 A linear sequence starts

100   89   78   67   …

Work out an expression for the nth term of the sequence.   **[2 marks]**

Answer

15 A linear sequence starts

6   5.8   5.6   5.4   …

Work out an expression for the nth term of the sequence.   **[2 marks]**

Answer

12

Turn over ▶

16   A linear sequence starts

6   11   16   21   26   …

Work out the 20th term of the sequence.   **[3 marks]**

Answer _____

17   A linear sequence starts

1   7   13   19   25   …

Work out the 50th term of the sequence.   **[3 marks]**

Answer _____

18   A linear sequence starts

2   6   10   14   18   …

Work out the 100th term of the sequence.   **[3 marks]**

Answer _____

19   A linear sequence starts

4   7   10   13   16   …

Is the number 91 in the sequence?
Tick **one** box

☐ Yes   ☐ No

Show working to support your answer.   **[3 marks]**

_____

_____

_____

_____

20   A linear sequence starts

3   7   11   15   19   …

Is the number 201 in the sequence?
Tick **one** box

☐ Yes   ☐ No

Show working to support your answer.   **[3 marks]**

_____

_____

_____

_____

15

Turn over ▶

21   A linear sequence starts

           7   13   19   25   31   …

Is the number 124 in the sequence?
Tick **one** box

☐ Yes   ☐ No

Show working to support your answer.   **[3 marks]**

_____

_____

_____

_____

_____

22   A linear sequence starts

           50   47   44   41   38   …

Is the number –10 in the sequence?
Tick **one** box

☐ Yes   ☐ No

Show working to support your answer.   **[3 marks]**

_____

_____

_____

_____

_____

6