

1. An expression for the n th term of this sequence of even numbers is $2n$

2 4 6 8 10

Write down

- (i) an expression, in terms of n , for the n th term of this sequence of odd numbers

1 3 5 7 9

- (ii) the 16th odd number

.

2. These five even numbers form an arithmetic sequence

2 4 6 8 10

- (i) Write down, in terms of n , an expression for the n th term of this sequence

- (ii) Write down the 50th even number

.

- (iii) Write down the 50th odd number

.

sequence Arithmetic (14) Answers Q1:(i) $2n - 1$ (ii) 31 Q2: (i) $2n$ (ii) 100 (iii) 99

Q3: **One way:** the first odd number is 1 less than the first even number

another way: $2n + 1$ is the sequence 3, 5, 7 ... not 1, 3, 5 ... Q4: (i) $2n - 1$ (ii) 29 Q5: 36

1. An expression for the n th term of this sequence of even numbers is $2n$

2 4 6 8 10

Write down

- (i) an expression, in terms of n , for the n th term of this sequence of odd numbers

1 3 5 7 9

- (ii) the 16th odd number

.

2. These five even numbers form an arithmetic sequence

2 4 6 8 10

- (i) Write down, in terms of n , an expression for the n th term of this sequence

- (ii) Write down the 50th even number

.

- (iii) Write down the 50th odd number

.

3. Selena’s maths teacher says an expression for the n th even number is $2n$

Selena says an expression for the n th odd number is $2n + 1$

Is Selena correct?

You must give a reason for your answer.

.....
.....

4. These five odd numbers form an arithmetic sequence

1 3 5 7 9

(i) Write down, in terms of n , an expression for the n th term of this sequence

(ii) Write down the 15th odd number

5. Write down the 18th even number.

.....

3. Selena’s maths teacher says an expression for the n th even number is $2n$

Selena says an expression for the n th odd number is $2n + 1$

Is Selena correct?

You must give a reason for your answer.

.....
.....

4. These five odd numbers form an arithmetic sequence

1 3 5 7 9

(i) Write down, in terms of n , an expression for the n th term of this sequence

(ii) Write down the 15th odd number

5. Write down the 18th even number.

.....