

Sequences From Scratch

Task A Sequences from Sentences

Write down the first six numbers in the sequences described below.

- 1) Start with 4, add on 5 each time.
- 2) Start with 10, add on 7 each time.
- 3) Start with 40, take away 3 each time.
- 4) Start with 21, take away 5 each time.
- 5) Start with 3, times by 2 each time.
- 6) Start with 16, halve each time.
- 7) Start with 1, add 2, then 3, then 5 etc.
- 8) Start with 1, add 3, then 5, then 7 etc.

Task B Sentences from Sequences

This time, you must write down a sentence that describes the sequence.

- 1) 3, 5, 7, 9, 11
- 2) 12, 17, 22, 27, 32
- 3) 30, 24, 18, 12, 6
- 4) 100, 91, 82, 73, 64
- 5) 5, 10, 20, 40, 80
- 6) 48, 24, 12, 6, 3
- 7) 10, 11, 13, 16, 20
- 8) -2, -4, -6, -8

Task C Sequences from Algebra

Copy out the tables below and then use the rule shown to complete them.

N	N+6
1	7
2	8
3	
4	
5	

N	N+12
1	13
2	
3	
4	
5	

N	3xN
1	3
2	
3	
4	
5	

N	5xN
1	
2	
3	
4	
5	

Task D Algebra from Sequences

This time, you must work out what sequence has been used to fill in the table.

N	?
1	8
2	9
3	10
4	11
5	12

N	?
1	5
2	10
3	15
4	20
5	25

N	?
1	9
2	18
3	27
4	36
5	45

N	?
1	0
2	1
3	2
4	3
5	4