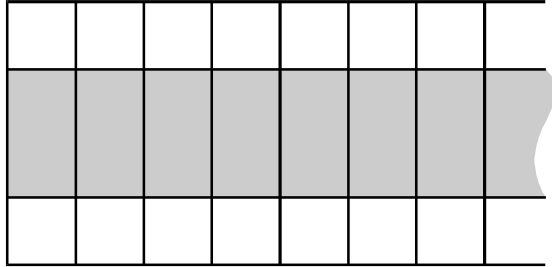


1. Track

Kerry makes a pattern from grey tiles and white tiles.

You cannot see all of the pattern but it continues in the same way.



(a) Kerry uses **30 grey** tiles.

How many white tiles does she use?

 white tiles

1 mark

(b) Tim makes a pattern like Kerry's but he uses **64 white** tiles.

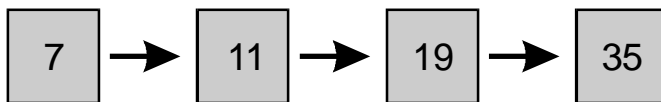
How many grey tiles does Tim use?

 grey tiles

1 mark

2. Number sequence

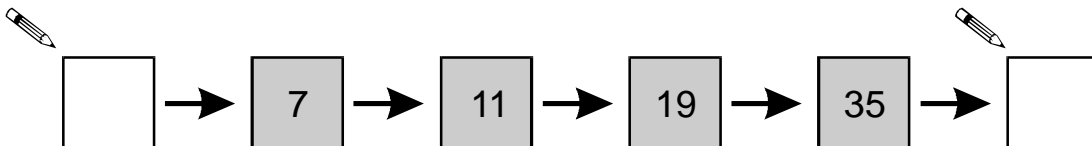
Here is part of a number sequence.



To get the next number you

multiply by 2 then subtract 3

Fill in the two missing numbers in the sequence.



2 marks

3. Patterns

The numbers in the oval show an **add 11** pattern.

50	51	52	53	54	55	56	57	58	59
40	41	42	43	44	45	46	47	48	49
30	31	32	33	34	35	36	37	38	39
20	21	22	23	24	25	26	27	28	29

(a) What pattern do the numbers in this oval show?

50	51	52	53	54	55	56	57	58	59
40	41	42	43	44	45	46	47	48	49
30	31	32	33	34	35	36	37	38	39
20	21	22	23	24	25	26	27	28	29



1 mark

(b) Draw an oval to show one **add 10** pattern.



50	51	52	53	54	55	56	57	58	59
40	41	42	43	44	45	46	47	48	49
30	31	32	33	34	35	36	37	38	39
20	21	22	23	24	25	26	27	28	29

1 mark