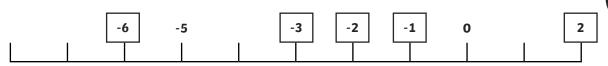
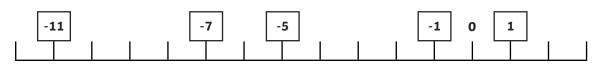
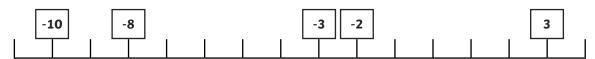
1) a)



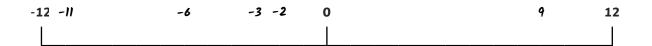
b)



c) Possible correct answer:



- 2) Here is a number line without intervals.
 - a) Estimate where on the number line each number should go and then write it in the correct position.



- 3) Possible answers include the following:
 - I knew where to position -6 because this is halfway between 0 and -12.
 - I knew where to position -3 because this would be halfway between 0 and -6.
 - I knew where to position 9 because this would be three quarters of the way between 0 and 12.
- 1) Mary is incorrect because, with negative numbers, as you move in steps further away from zero, the digits increase but, in fact, the number is getting smaller. -17 is further away from zero than -7 and is therefore colder in terms of temperature.



- 2) a) False. The difference between -5 and I is 6. It was 6°C warmer.
 - b) True. -19 is the lowest number and therefore represents the coldest temperature.
 - c) False. -4 is greater than -5 therefore Tuesday was 1°C warmer.
 - d) False. -5 less than 2 is -3. Wednesday needed to be 6°C colder as 6 less than 2 is -4.





1) a) If C = -3, B = -12.

If
$$C = -4$$
, $B = -13$.

If
$$C = -5$$
, $B = -14$.

If
$$C = -6$$
, $B = -15$.

If
$$C = -7$$
, $B = -16$.

b) Where B = -12, A = -22.

Where
$$B = -13$$
, $A = -23$.

Where
$$B = -14$$
, $A = -24$.

Where
$$B = -15$$
, $A = -25$.

Where
$$B = -16$$
, $A = -26$.

2)	Finish							
	-15	-19	-10	-9	-28	-33	-31	-29
	-22	-16	-17	-17	-29	-25	-23	-25
	-17	-8	-15	-13	-15	-25	-22	-19
	-16	-17	-8	-11	-11	-16	-21	-16
	-15	-9	-9	6	-1	-17	-13	-10
	-2	-12	-7	8	-13	-10	-7	-8
	-4	-3	-9	-5	-9	-7	-6	-6
	-1	15	-6	-3	12	-5	-4	7
	Start							

a) Correct route shown in red.

Correct route shown in teal.

b) The route is shown in purple, starting at -5. The rule is counting backwards in 4s.



