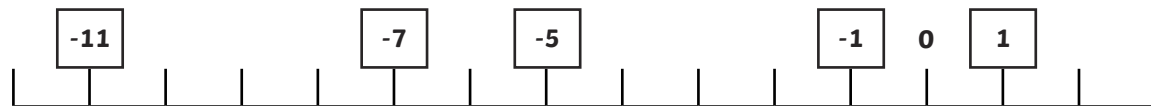


1) a)



b)

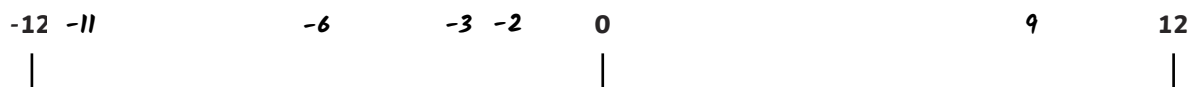


c) Possible correct answer:



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 1 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.