

Practice – Week 1

1. Write the 3 letters which should come next in this series.

B A A C E E D I I E M M F **Q Q G**

Hint: AA jumps to EE which is 4 characters ahead.

Similarly for going from EE to II, II to MM. And hence 4 characters ahead of M would be Q. For single character, it jumps to the next one, from B to C, C to D, D to E, E to F and hence F to G.

2. Which set of letters is different from the other 3 sets?

a. HRTG b. NOMP c. XACW d. LDFK

Hint: b. All characters there are next to each other. Each of other sets has only two characters next to each other.

3. Write the 2 numbers which should appear next in the series.

3 9 5 15 11 33 29 **87** **83**

Hint: $3 \times 3 = 9$, $9 - 4 = 5$.

$3 \times 5 = 15$, $15 - 4 = 11$

$3 \times 11 = 33$

$33 - 4 = 29$

So next number will be $3 \times 29 = 87$, and $87 - 4 = 83$

4. You leave your house, travel one mile due south, then one mile due east, then one mile due north. You are now back at your house! Where do you live? There is more than one solution; find as many as possible.

Hint: You may end up first with North Pole. But it is not the only solution. For more info, you may have a look at here:

<https://mindyourdecisions.com/blog/2011/02/22/one-mile-south-one-mile-east-one-mile-north-a-classic-puzzle/>