

Corrigendum/Explanation SFG 2026 Level 2 Test 22

There is 1 change in today's paper (Q.46). The correct answer of Q.46 is Option d.

Q.46) A doubt was raised with respect to the maximum number of attempts needed to pick the correct pair of black socks.

Exp) The explanation missed the attempts in case where all the socks are left/right from the pair. SO there will be 14 more attempts. The correct answer would be 46.

For Future Reference:

Q.46) Vikram has fifteen pairs of black, ten pairs of white and five pairs of grey socks in a drawer. If he randomly picks socks one by one (without replacement) from the drawer to get a black pair of socks to wear, what is the maximum number of attempts he has to make?

- a) 31
- b) 32
- c) 45
- d) 46

Ans) d

Exp) Option d is the correct answer.

Vikram has:

- 15 pairs of black socks = 30 black socks
- 10 pairs of white socks = 20 white socks
- 5 pairs of grey socks = 10 grey socks

So total non-black socks are: $20 + 10 = 30$

We need the **maximum** number of attempts required to **guarantee a black pair**.

Worst-case situation

In the worst case, Vikram may first pick **all 30 non-black socks**:

- 20 white
- 10 grey

Even then, he still has **no black socks**.

Now after these 30 picks, the next socks must come from the **30 black socks**.

In worst case all of the first 15 socks picked are either left pair sock or all right pair sock, now the 16th one will definitely will be the correct one.

Therefore: 30 (non-black socks) + 15 (All left or all right black sock) + 1 (black sock different pair from the already picked 15 socks) = 46