Q.1 The ratio of boys to girls in a class is 7 to 3.
Among the options below, an acceptable value for the total number of students in the class is:
(A) 21
(B) 37
(C) 50
(D) 73

Answer:

The correct answer is C: 50.

Because the ratio of boys to girls in the class is 7 to 3, which means that the number of boys and girls must be a multiple of both 7 and 3. The only option that is a multiple of both 7 and 3 is 50.

The other options are not acceptable because they are not multiples of both 7 and 3. Option A, 21, is a multiple of 3 but not a multiple of 7. Option B, 37, is a multiple of 7 but not a multiple of 3. Option D, 73, is not a multiple of either 7 or 3.

Therefore, the only acceptable value for the total number of students in the class is 50.