30 A detector is used for monitoring an α-source and a reading of 300 counts is observed. After a time equal to the half-life of the α-source, the reading has fallen to 155 counts. If a 5 mm thick lead sheet is inserted between the α-source and the detector, the reading would probably be

   A 0 counts   **B** 5 counts   **C** 10 counts   **D** 20 counts