be a constant 24 counts per minute.

Which of the following gives the expected counts per minute?

A 16

10 A detector is placed 30 cm from a gamma source, the count rate is 64 counts per minute.

B 32

 \mathbf{C} 34

D 44

The detector is then placed 60 cm from the source. The background rate is presumed to

(Total for Question 10 = 1 mark)