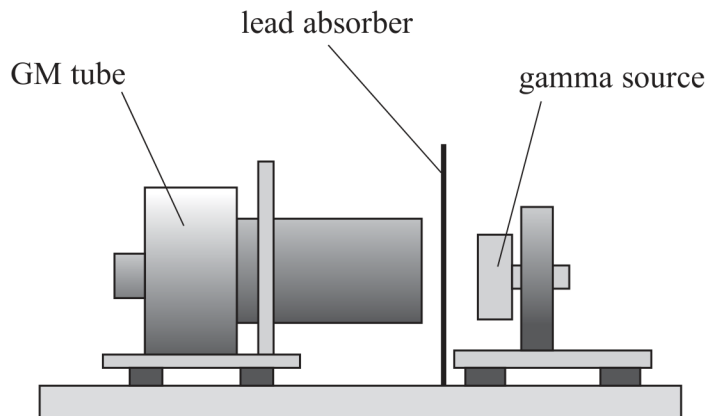


- 7 A student investigated the absorption of gamma radiation by lead, as shown.



With no absorber the intensity of radiation was I_0 . With an absorber of thickness 0.8 cm the intensity was $0.25I_0$.

What thickness of absorber would give an intensity of $0.5I_0$?

- ☐ A 0.2 cm
- ☐ B 0.4 cm
- ☐ C 1.6 cm
- ☐ D 3.2 cm

(Total for Question 7 = 1 mark)