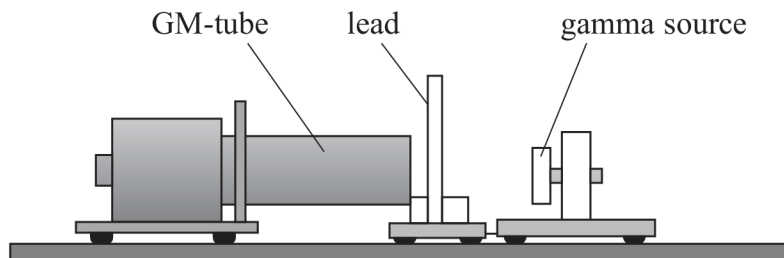


Questions 6 and 7 both relate to an experiment carried out by a student to investigate the absorption of gamma radiation by lead.

The student used a GM-tube to measure the background count for 10 minutes. She then used the apparatus below to measure the count for 2 minutes for different thicknesses of lead.



6 To correct the readings for the effect of background radiation she should

- ☐ **A** add the background count to each count.
- ☐ **B** add the background count rate to each count rate.
- ☐ **C** subtract the background count from each count.
- ☐ **D** subtract the background count rate from each count rate.

(Total for Question 6 = 1 mark)