The count rate of a material is 2016 Bq. After 35 days it has fallen to 63. What is the half life?

Answer:

Logic of the process is the following:

2016　Half-life　1008　Half-life　504　Half-life　252　Half-life　126　Half-life　63

Going from 2016 to 63 there are 5 half-lives.

If 5 half-lives take 35 days, each half-life is equal to 35 ÷ 5 = 7 days.

Therefore, the half-life of the material is 7 days.