

- 28** The uncertainty in position of a particle in space is  $2.00 \times 10^{-20}$  m and the uncertainty in its momentum is  $4.00 \times 10^{-14}$  N s.

What is the minimum percentage change in uncertainty of momentum when the uncertainty in position is halved?

- A** - 100 %                      **B** - 66 %                      **C** 66 %                      **D** 100 %

- 29** Today, the activity of a sample of caesium-137 is  $4.0 \times 10^5$  Bq. The half-life of caesium-137