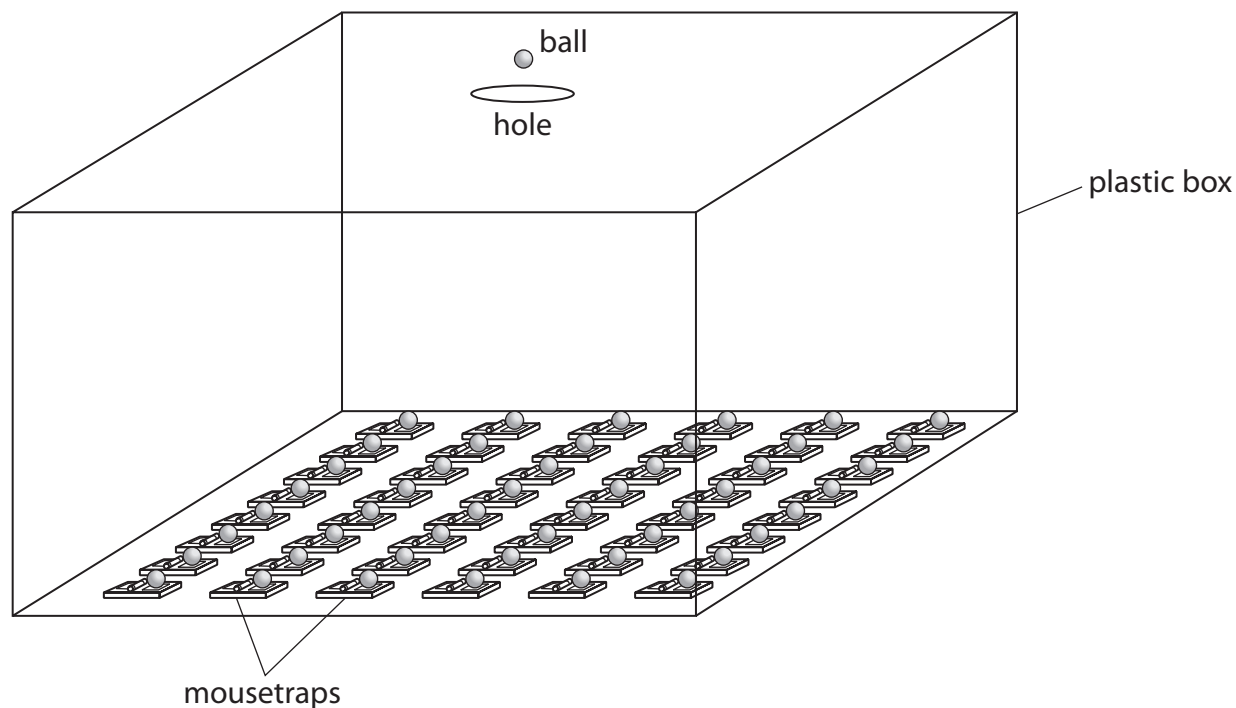


3 The diagram shows a model of a chain reaction in a nuclear fission reactor.

A ball falls through the hole and hits a mousetrap.

This mousetrap then releases another ball.

Each released ball hits a different mousetrap.



(a) Each mousetrap represents a uranium-235 nucleus.

(i) Name the particle represented by the balls.

(1)

(ii) Describe what is meant by the term **nuclear fission**.

(2)



(2)

(1)

(4)

(Total for Question 3 = 10 marks)