

1 A skydiver steps out of an aeroplane and falls from rest, towards the ground. Her parachute opens a short time after she reaches terminal velocity.

Which of the following statements is correct for the vertical acceleration a of the skydiver until her parachute opens?

- ☐ **A** a decreases to zero
- ☐ **B** a increases to a maximum
- ☐ **C** a is constant and equal to g
- ☐ **D** a is constant but less than g

(Total for Question 1 = 1 mark)