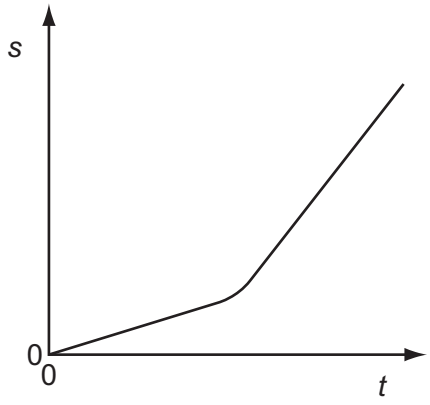
7 A stone of mass m is dropped from a tall building. There is significant air resistance. The acceleration of free fall is g.

When the stone reaches its terminal velocity, which information is correct?

	magnitude of the acceleration of the stone	magnitude of the force of gravity on the stone	magnitude of the force of air resistance on the stone
A	g	mg	mg
B	zero	mg	mg
C	zero	zero	mg
D	zero	zero	zero

8 The variation with time t of the distance s moved by a body is shown below.



What can be deduced from the graph about the motion of the body?

A It accelerates continuously.

B It starts from rest.

C The distance is proportional to time.

D The speed changes.

Space for working