

- 6** A rock on the surface of Mars is projected vertically upwards with an initial speed of 9.4 ms^{-1} . The rock rises to a height of 12 m above the surface.

Assume there is no atmosphere on Mars.

What is the acceleration of free fall near the surface of Mars?

A 0.39 ms^{-2}

B 3.7 ms^{-2}

C 7.4 ms^{-2}

D 9.8 ms^{-2}