

- 6** A block is resting on a weighing scale in a car. When the car is moving with constant velocity, the weighing scale gives a reading of W in newtons. When the car drives over a hump of radius r , the weighing scale reads $\frac{W}{3}$ at the highest point of the hump.

What is the velocity of the car at this point?

A $\sqrt{\frac{gr}{3}}$

B $\sqrt{\frac{2gr}{3}}$

C \sqrt{gr}

D $\sqrt{\frac{4gr}{3}}$