**2.** A student uses the apparatus shown to determine the acceleration of a trolley as it moves down a ramp.
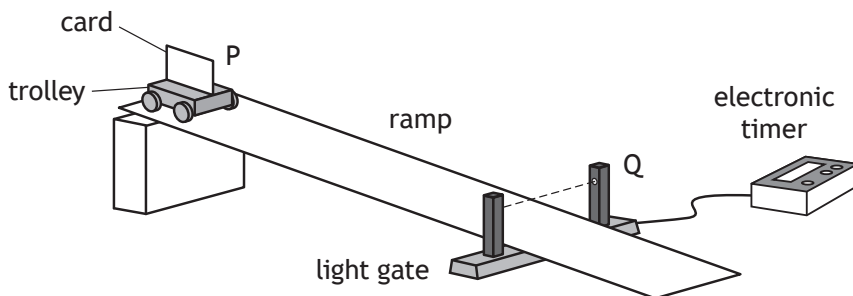


The trolley is released from rest at point P and moves down the ramp.

A card attached to the trolley passes through a light gate at point Q.

The time for the card to pass through the light gate is displayed on the electronic timer.

The vehicle's acceleration $a$ is determined using the relationship

$$v^2 = u^2 + 2as$$

The student makes the following statements about the terms $u$, $s$, and $v$:

I  $u = 0 \text{ m s}^{-1}$

II  $s =$ the length of the card

III  $v = \dfrac{\text{distance between P and Q}}{\text{time displayed on timer}}$

Which of these statements is/are correct?

A  I only

B  II only

C  I and II only

D  I and III only

E  I, II and III