

Fig. 2.1 shows a dummy of mass 70 kg used in a crash test to investigate the safety of a new car.

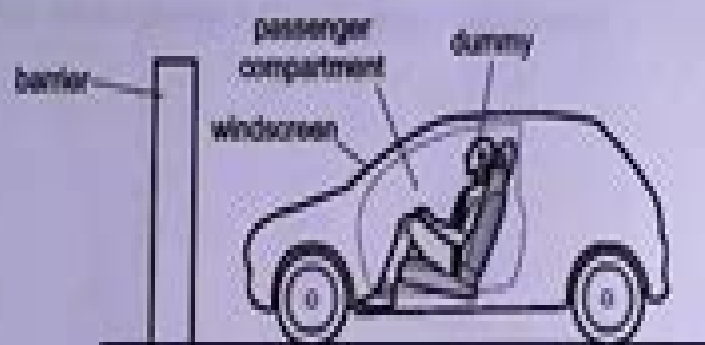


Fig. 2.1

The car approaches a solid barrier at 20 m/s. It crashes into the barrier and stops suddenly.

- (a) (i) Calculate the momentum of the dummy immediately before the crash.

momentum = [2]

- (ii) Determine the impulse that must be applied to the dummy to bring it to rest.

Igcse Physical Science Paper Answer Sheet

Raffaela Di Napoli

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

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