

Newton's laws of motion

A car has a mass of 800 kg and is travelling at a constant speed of 30 m/s.

a State the resultant force acting on the car. (1 mark, ★★★)

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The driver applies the brakes and the braking force is 8000 N.

b Calculate the deceleration of the car. (2 marks, ★★★)

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c How long would it take the car to stop? (3 marks, ★★★★★)

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