

GCSE Physics A (Gateway)

J249/02 Physics A P5-P8 and P9 (Foundation Tier)

Question Set 7

1 (a) A car starts from rest and accelerates at 3 m/s^2 .

Use the equation: Acceleration = Change in velocity \div Time taken

Calculate the **velocity** of the car after 4 s.

Answer = m/s

[2]

(b) A roller coaster car moves down a slope with an acceleration of 5 m/s^2 .

The force on the roller coaster car is 4000 N.

Calculate the **mass** of the roller coaster car.

Answer = kg

[3]

Total Marks for Question Set 7: 5

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