

Solutionbank M1

Heinemann Modular Maths for Edexcel AS and A-level

5 Newton's laws of motion

Exercise B, Question 1

Question:

A single force of magnitude 8 N acts on a particle of mass 16 kg. Find the acceleration produced.

Solution:

Newton's 2nd Law in the direction of the force gives

$$8 = 16 \times a$$

$$\therefore a = 0.5 \text{ m s}^{-2}$$

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