

QUESTION 4 (Start on a new page.)

Two boys, each of mass m , are standing at the back of a trolley of mass $4m$. The trolley is at rest on a frictionless horizontal surface.

The boys jump off simultaneously at one end of the trolley with a horizontal velocity of 2 m s^{-1} . The trolley moves in the opposite direction.

- 4.1 Write down the principle of conservation of linear momentum in words. (2)
- 4.2 Calculate the final velocity of the trolley. (3)
- 4.3 The two boys jump off the trolley one at a time. How will the velocity of the trolley compare to that calculated in QUESTION 4.2? Write down only GREATER THAN, SMALLER THAN or EQUAL TO. (1)

(8)

QUESTION 5 (Start on a new page.)

A 2 kg trolley is at rest on a horizontal frictionless surface. A constant horizontal force of 10 N is applied to the trolley over a distance of 2.5 m .



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VID 1 OF 16: MOMENTUM

$$1. \quad \Sigma P_A = \Sigma P_B$$

Question 4 (Physical Sciences P1 KAPLUM 2014)

Data:

- $M_1 = m$
- $M_2 = m$
- $M_{trolley} = 4m$
- $M_{initial} = 4m$
- $V_{1, trolley} = 0 \text{ m/s}$
- $V_{2, trolley} = 2 \text{ m/s}$

- 4.1. Principle of conservation of momentum
- 4.2. 0 m/s
- 4.3. 0 m/s



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