

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  $2 \text{ m s}^{-1}$ . 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)

QUESTION 5 (Start on a new page.)

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



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VID 1 OF 16: MOMENTUM

1.  $\Sigma p_i = \Sigma p_f$

Question 4 (Physical Sciences 2 XAMPLAR 2014)

Data:

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

- 4.1 Principle of conservation of momentum
- 4.2
- 4.3



# Physical Sciences Exemplar Grade 12 2014 P1

**Jin-Ying Zhang**



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