

Question # 5

Physical Sciences: EXEMPLAR 2014 Paper 1 (Grade 12)

(WORK ENERGY AND POWER)

QUESTION 4 (Start on a new page.)

Two boys, each of mass m , are standing at the back of a trolley of mass $2m$. 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. (2)
- 4.3 The two boys jump off the trolley one at a time. Show that the velocity of the trolley compares to that calculated in QUESTION 4.2? (1)

(4)

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 .



When the force is removed at point A, the trolley moves a distance of 10 m up the incline until it reaches the maximum height at point B. When the trolley moves up the incline, there is a constant frictional force of 2 N acting on it.

- 5.1 Write down the name of a non-conservative force acting on the trolley as it moves up the incline. (1)
- 5.2 Draw a labelled free-body diagram showing all the forces acting on the trolley as it moves along the horizontal surface. (2)
- 5.3 State the WORK-ENERGY THEOREM in words. (2)
- 5.4 Use the work-energy theorem to calculate the speed of the trolley when it reaches point B. (4)
- 5.5 Calculate the height, h , that the trolley reaches at point B. (2)

(10)

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Michael Brown

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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