

**QUESTION 2 (Start on a new page.)**

- 2.1 Two blocks of mass  $M$  kg and 2,5 kg respectively are connected by a light, inextensible string. The string runs over a light, frictionless pulley, as shown in the diagram below.

The blocks are **stationary**.



- 2.1.1 State Newton's THIRD law in words. (2)

- 2.1.2 Calculate the tension in the string. (3)

The coefficient of static friction ( $\mu_s$ ) between the unknown mass  $M$  and the surface of the table is 0,2.

- 2.1.3 Calculate the minimum value of  $M$  that will prevent the blocks from moving. (5)

The block of unknown mass  $M$  is now replaced with a block of mass 5 kg. The 2,5 kg block now accelerates downwards. The coefficient of kinetic friction ( $\mu_k$ ) between the 5 kg block and the surface of the table is 0,15.

- 2.1.4 Calculate the magnitude of the acceleration of the 5 kg block. (5)

- 2.2 A small hypothetical planet X has a mass of  $6,5 \times 10^{28}$  kg and a radius of 550 km.

Calculate the gravitational force (weight) that planet X exerts on a 90 kg rock on this planet's surface. (4)  
[19]

**View Answers**

**QUESTION 3 (Start on a new page.)**

Ball **A** is projected vertically upwards at a velocity of  $16 \text{ m s}^{-1}$  from the ground. Ignore the effects of air resistance. **Use the ground as zero reference.**

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**B Lingard**



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