

ANSWER SCHEME PRE TEST PHYSICS SEM 1 SET 2

SECTION B

1.



Figure 3.27

An object, *A*, of mass 2.0 kg is placed at rest at the edge of a smooth horizontal table. The edge is 50 cm above the floor as shown in Figure 3.27. An object, *B*, of mass 1.5 kg moves towards object *A* at a constant speed of 2.0 m s⁻¹. After colliding with object *A*, object *B* moves in the opposite direction with a speed of 0.80 m s⁻¹. Neglecting air resistance, determine

- the velocity of object *A* immediately after collision,
- the horizontal distance travelled by object *A* when it reaches the floor.

ANSWER

a) Immediately after collision between *A* and *B*, we have

$$\begin{aligned} m_A u_A + m_B u_B &= m_A v_A + m_B v_B \\ (2.0)(0) + (1.5)(2.0) &= 2.0v_A + (1.5)(-0.80) \\ 2.0v_A &= 4.20 \\ v_A &= 2.1 \text{ m s}^{-1} \end{aligned}$$

b) Considering the vertical motion of *A* when it falls freely, we have

$$0.50 = 0 + \frac{1}{2}(9.81)t^2$$

$$t = 0.32 \text{ s}$$

Considering the horizontal motion of *A*, we have

$$\begin{aligned} R &= v_A t \\ &= (2.1)(0.32) \\ &= 0.67 \text{ m} \end{aligned}$$

2. A cube of weight *W* is placed on a rough horizontal surface and the maximum horizontal frictional force is 0.6*W*.



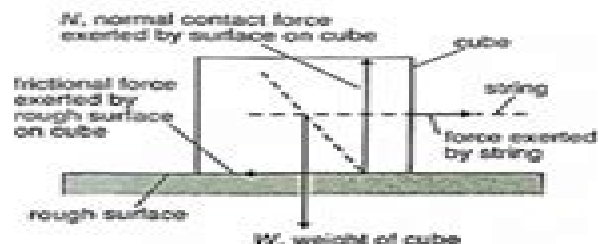
Figure 3.28

Figure 3.28 shows the cube on the rough surface with a string attached to the centre of a vertical face of the cube. The string is pulled horizontally with a force, *F*, where its value increases gradually from zero.

- With the cube in equilibrium, sketch and label on the figure, the forces acting on the cube when *F* has increased to a value of 0.5*W*.
- Find the coefficient of static friction.

ANSWER

a)



b)

$$\begin{aligned} F &= \mu N \\ 0.5W &= \mu W \quad (\text{Since } N = W) \\ \therefore \text{the coefficient of static friction, } \mu &= 0.5 \end{aligned}$$

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