

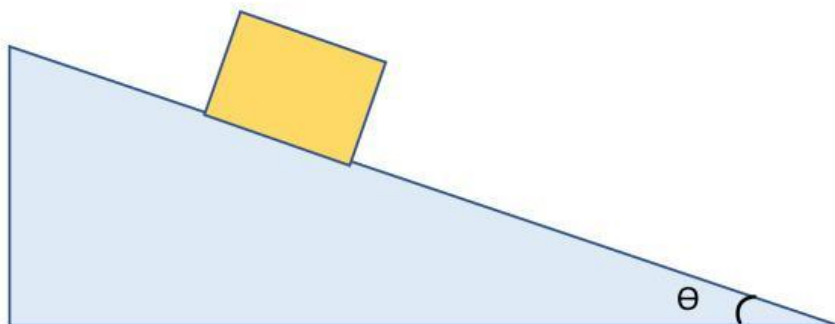
NAMA:.....

KELAS:.....

Tick the box	
BEFORE	
AFTER	

Force in equilibrium

1. A box of 10kg is in stationary on an inclined plane. The angle $\theta = 40^\circ$.



- a) Draw a free body diagram of the box showing the weight of the box, W , normal reaction, R and the frictional force, $F_r = 5\text{N}$.

(3 marks)

- b) Draw a triangle of forces for the force component which is parallel and perpendicular to the inclined plane.

(3 marks)

- c) Calculate the force component which is parallel to the inclined plane.

(2 marks)

- d) Calculate the force component which is perpendicular to the inclined plane.

(2 marks)