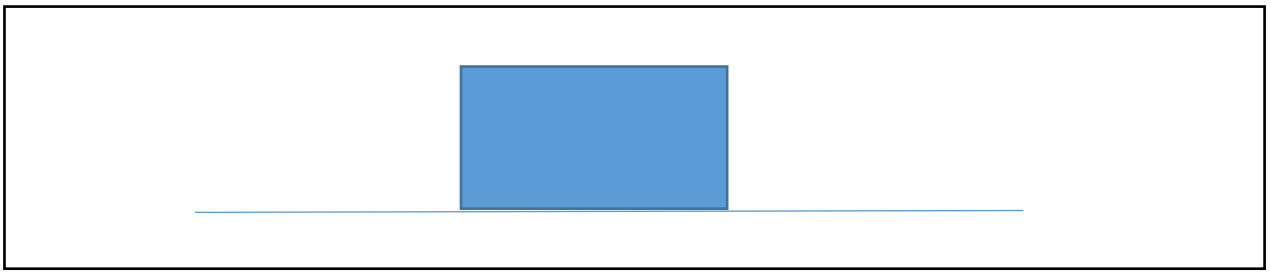
Signature: Name: Marks:

Force Worksheet 1

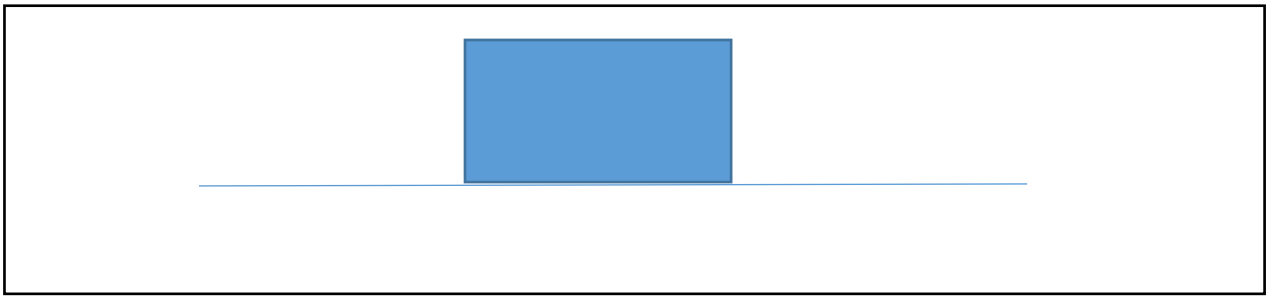
Q1.

A box of 4kg is resting on the floor. Draw and label the force on the diagram below



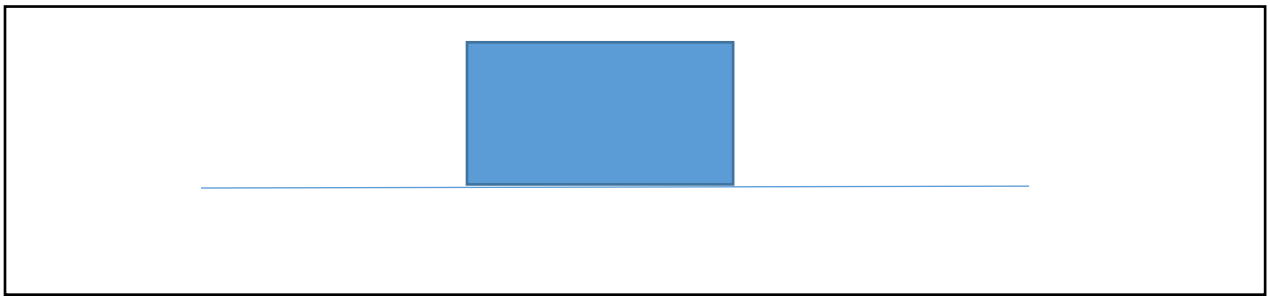
Q2.

The same box is being pulled to the right by Abu with a force of 4N. Draw and label the force on the diagram below.



Q3.

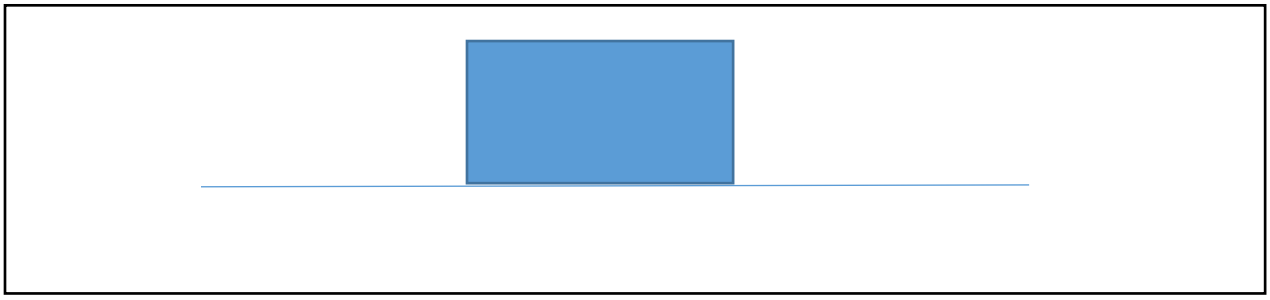
Now the box is being pulled to the left by Ali with a force of 4N. Draw and label the force on the diagram below.



Signature: Name: Marks:

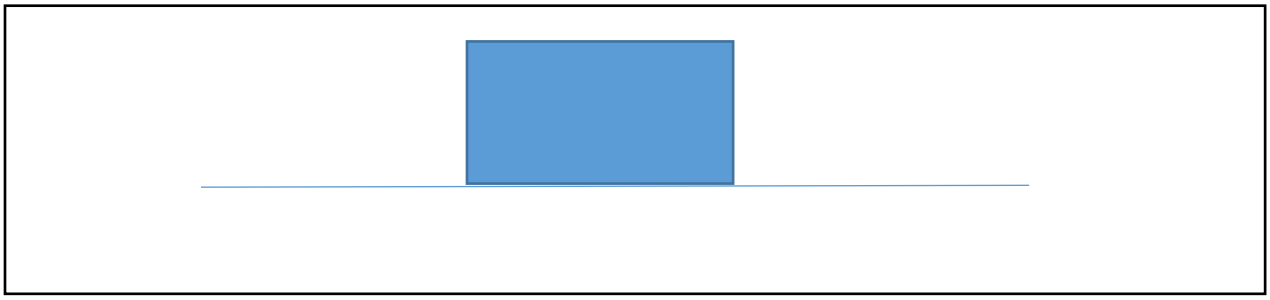
Q4.

The same box is now being pulled and is accelerating to right at $1ms^{-2}$. Draw and label all the forces assuming there's no friction.



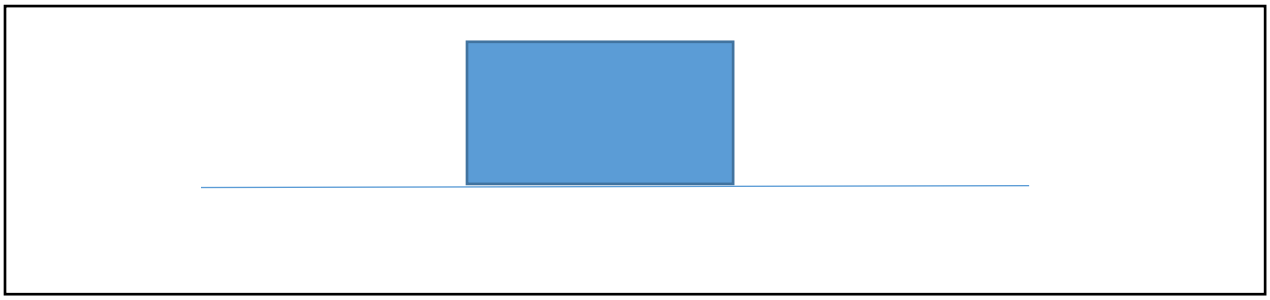
Q5.

Abu is pulling the same box to the right at 4N. This time however, the box is moving at constant speed and is not accelerating. Draw and label all the forces.



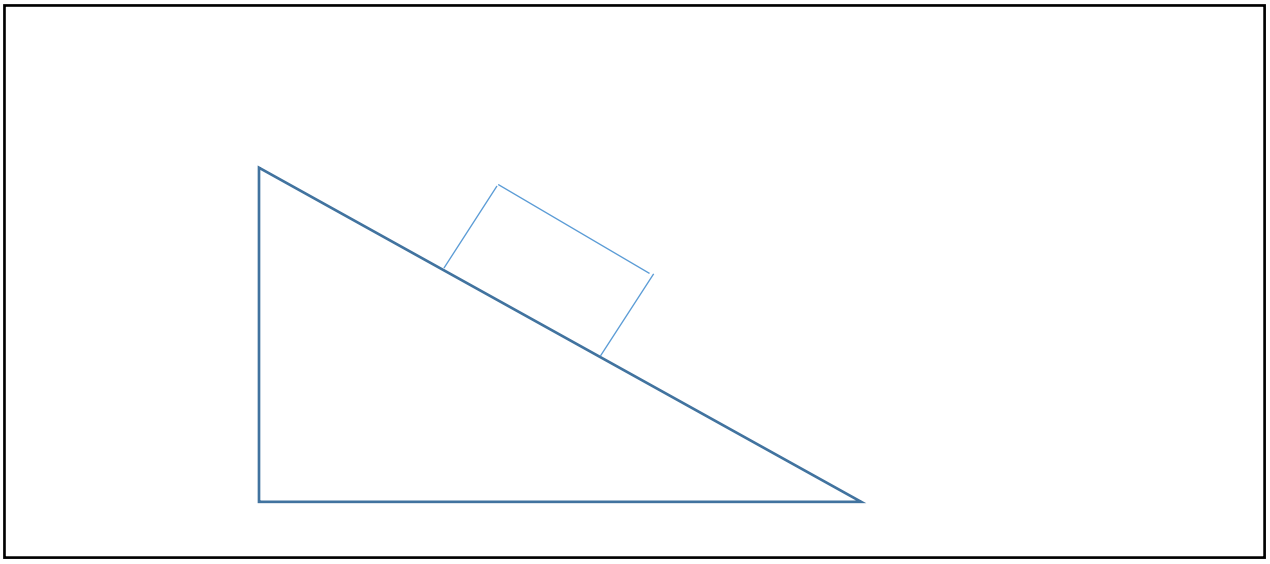
Q6.

Ah Meng is pulling the same box right at 5N while Ah Kau is pulling the box left at 4N. Draw and label all the forces.

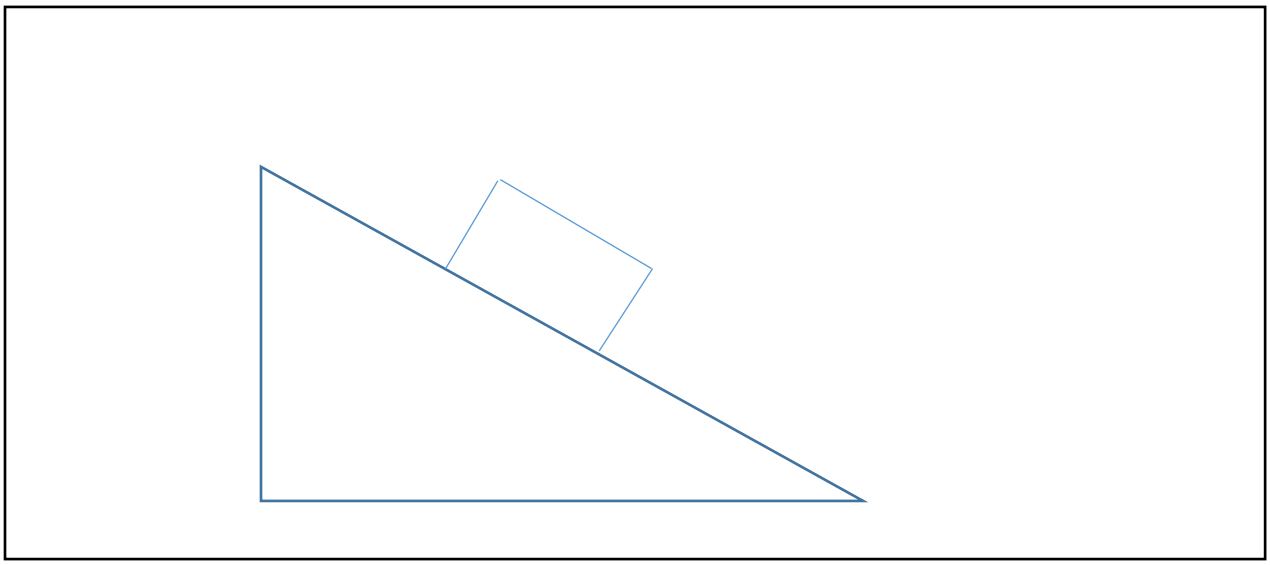


Signature: Name: Marks:

Q7. The overly used box is now on an inclined plane. Draw and label all the forces.



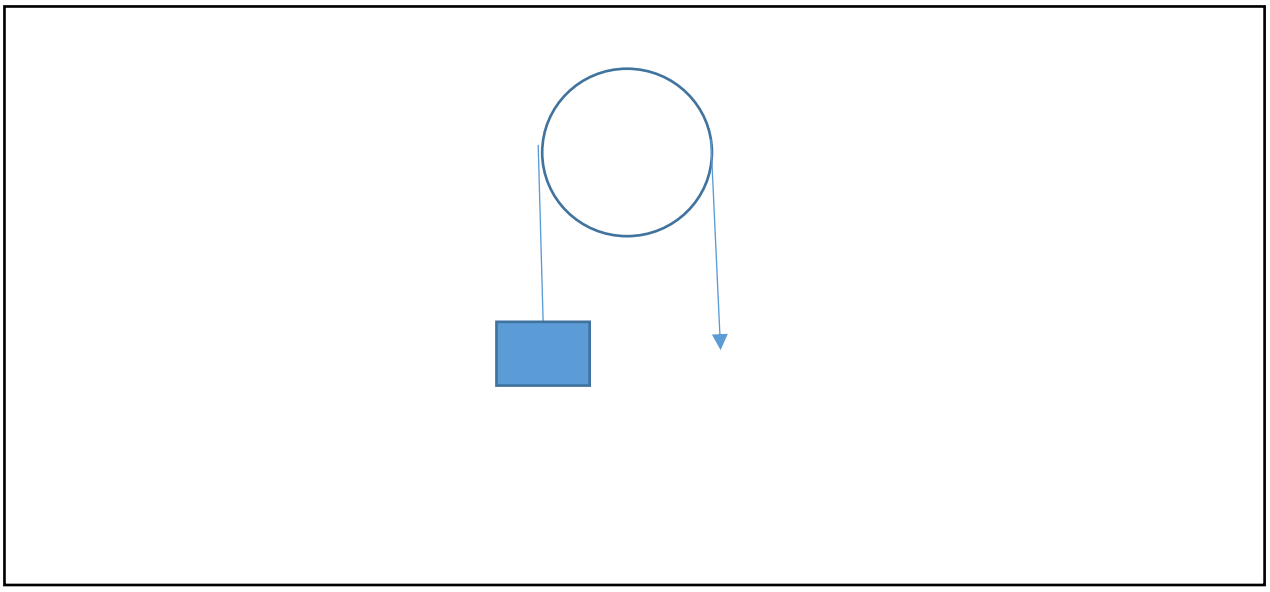
Q8. The same box (yes again) that was on the same inclined plane is being pull upwards along the inclined plane. Draw and label all the forces.



Signature: Name: Marks:

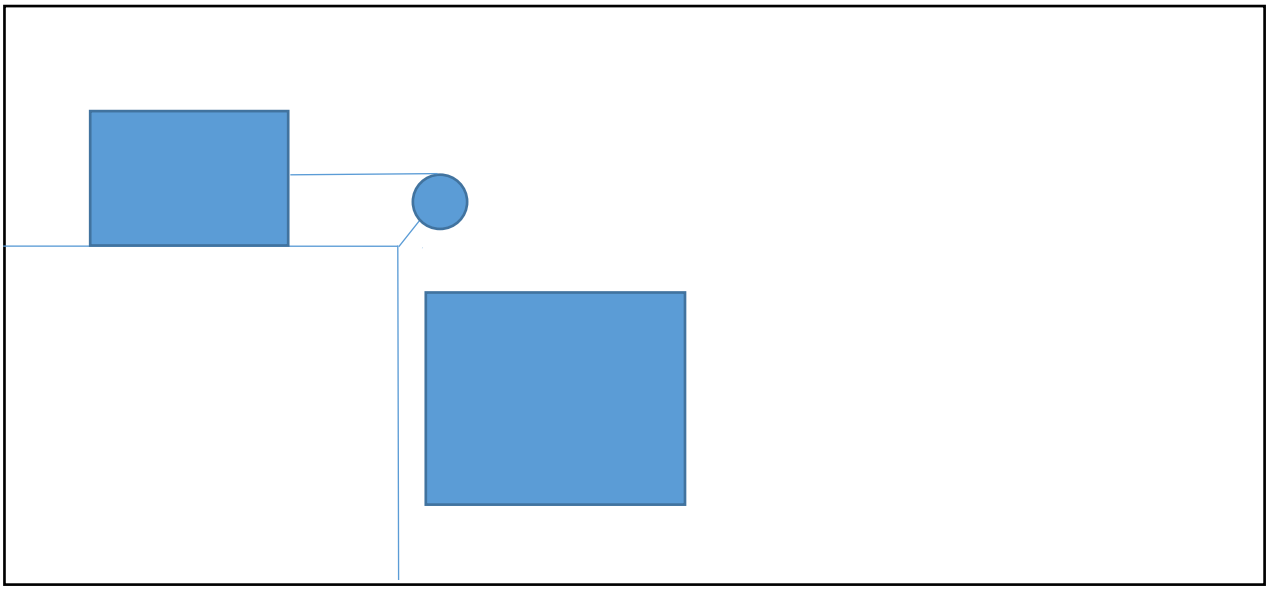
Q9.

On the pulley diagram below draw and label all the forces assuming Raju pulled on the rope with 4N.



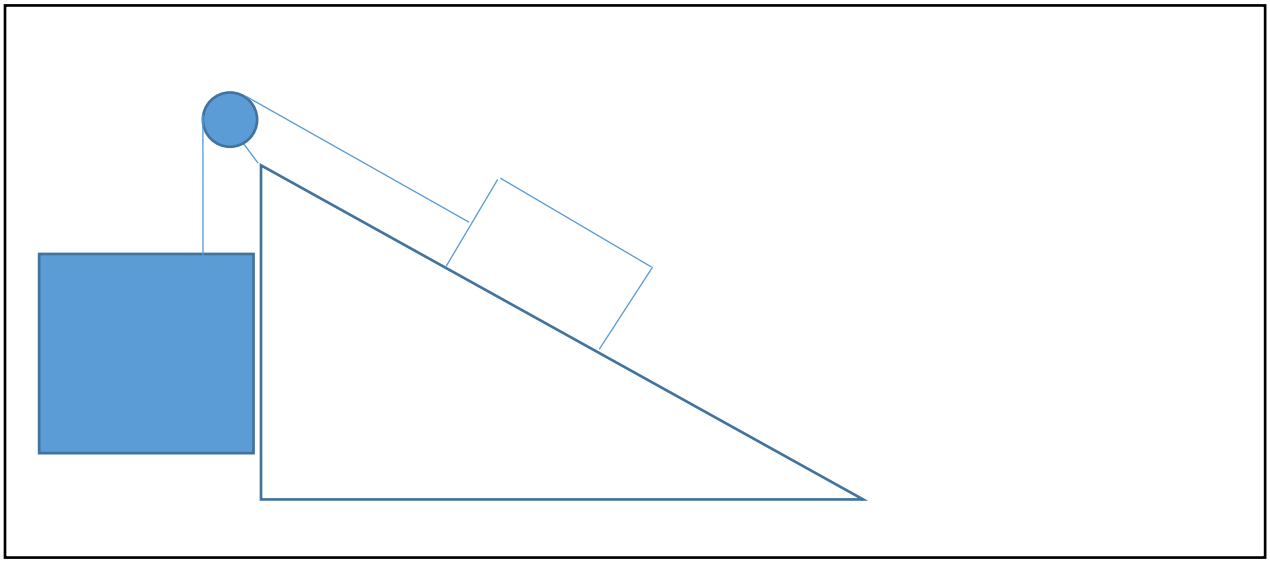
Q10.

On the diagram below the larger box is heavier than the smaller one. Assuming no friction, draw and label the forces



Signature: Name: Marks:

Q11. The same box (yes again) that was on the same inclined plane is being pull upwards along the inclined plane by an ever larger box. Draw and label all the forces.



Q12. Muthu is riding a lift to his office. You know the routine by now, draw and label the forces.