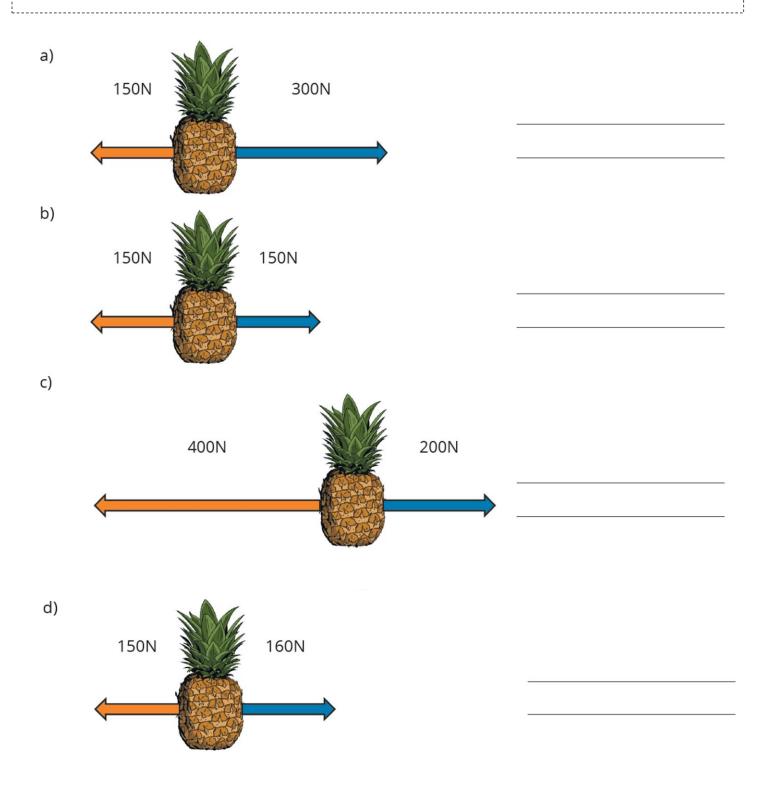


Worksheet 1 Name:					
Question one A <u>dd force arrows</u> to the diagrand a description that says <u>whether the forces</u>	ams below. Label the arrows with the force and are balanced or unbalanced.				
	A person sitting on a chair.				
	A ball falling downwards				

Teacher:Roba Alamat

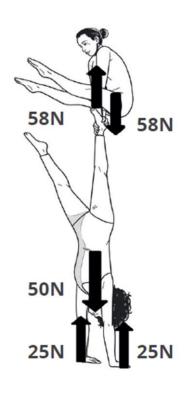
Question two the diagrams below show the forces acting on a stationary object calculate the resultant force and state the direction of the movement.

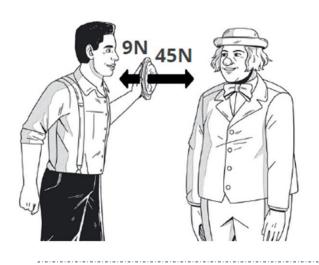


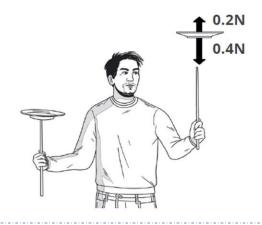
Question three							
A box is pulled along a wooden floor with a force of 300N. An initial resistive force acts in the opposite direction to the box with a magnitude of 135N.	16						
a) What is the name of the equipment used to measure the pulling force?							
b) What is the name of the resistive force?							
c) Draw a force diagram to show these two forces acting on the block. Label the arrows with the size of the force.							
d) What is the effect of the forces on the motion of the box?							

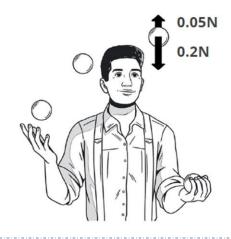
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Question Four: State whether the forces acting on the objects are balanced or unbalanced and calculate the resultant force and state the direction







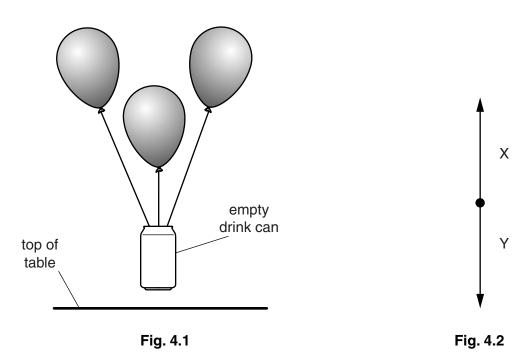


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	e: Imagine you are sitting in a boat on a lake. Draw a force diagram shown the boat and answer the following questions	owing the
α) Why your	boat is not sinking?	
	a stone sink when it falls in a river?	
c) You hit a i	rock and stop. You see that there is a hole in your boat and the water i terms of forces, what will happen to your boat if you don't block the h	is coming in.

Question six

At a party, three balloons are filled with a gas less dense than air. The balloons are tied to an empty drink can. The can floats, without moving, in the air above a table, as shown in Fig. 4.1.



(a) Fig. 4.2 represents the vertical forces acting on the can as it floats in the air.

State the name given to the downward force labelled Y.

(b) In terms of the vertical forces acting on the can, explain why the can does not rise or fall.

Question seven

(a) An aeroplane is flying horizontally at a steady speed in a straight line.

Fig. 3.1 shows three of the four forces acting on it.

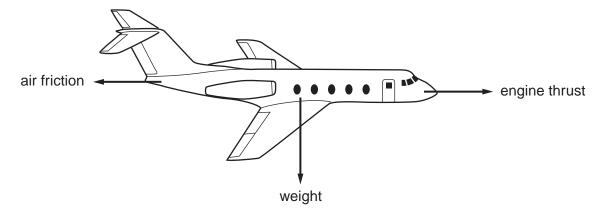


Fig. 3.1

(1)	aeroplane must be equa	,	a steady	speed,	which	two	of the	forces	shown	on	the
			and					are equ	ıal.		[1]

(ii) In order to fly horizontally in a straight line, there must be a fourth force acting on the plane.

Draw an arrow on Fig. 3.1 to represent this force. [1]