

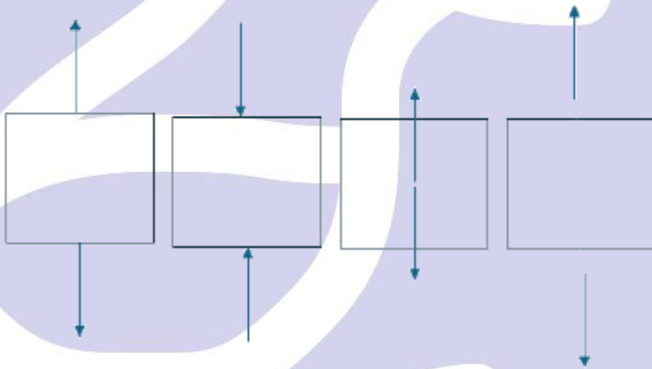
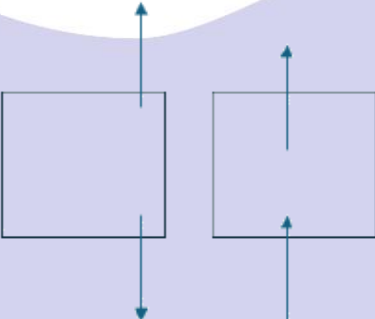
Q1.

Question number	Answer	Mark
	C a javelin moves through the air after leaving an athlete's hand	(1)

Q2.

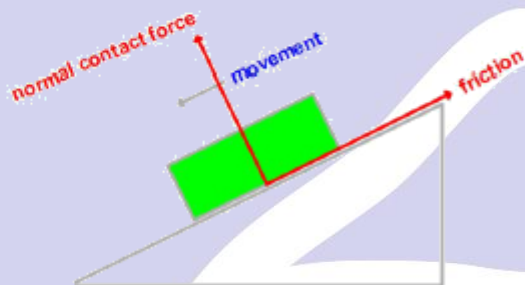
	Answer	Acceptable answers	Mark
(i)	B to the left ←		(1)
(ii)	A accelerating		(1)

Q3.


Question number	Answer	Additional guidance	Mark
(iii)	two straight vertical arrows in opposite directions and (if extended) go through centre of the box (judge by eye) (1)	<p>examples</p>  <p>scores this mark</p>  <p>does not score this mark</p> <p>independent mark</p>	(2) AO1
	label 5N on both arrows (1)		

Q4.

Question number	Answer	Additional guidance	Mark
	<ul style="list-style-type: none"> An arrow showing the 'normal contact force' - from between the two surfaces, acting upwards (1) An arrow showing the 'friction' force - from between the two surfaces (1) Both forces in the correct directions, as shown (1) 	<p>generally upwards / away from the surface</p> <p>can be to the left or to the right</p> <p>they do not need to start from the same point</p>	(3)



Q5.

	Answer	Acceptable answers	Mark
(b)(i)	 (1) <u>air</u> resistance (1)	upward arrow on any part of line vertical line from any point on the diagram <u>air</u> friction, upthrust, drag Ignore any downward arrow labelled weight or gravity	(2)
(b)(ii)	Balanced (1) Zero (1)		(2)

Total for marks for question = 4