Question Number	Answer		Mark
12(a)	• States that *W* is the weight of the rider (and unicycle) and *R* is the push/reaction force (from the ground) • *R* and *W* are different types of force **Or** *R* and *W* act on the same object **Or** *R* and *W* are not equal. • They are **not** a N3 pair of forces MP3 conditional on MP2	(1) (1) (1)	**3**
12(b)	• The resultant force acting in the vertical direction is zero so the unicycle will remain at that height **Or** The resultant force acting in the vertical direction is zero so zero acceleration in the vertical direction • The unicycle moves at a constant (forward) speed because the resultant horizontal force is zero or horizontal forces are balanced (because forward frictional force balances backward drag forces)	(1) (1)	**2**
	Total for question 12		**5**