

Mark Scheme (Results)

January 2022

Pearson Edexcel International GCSE In Physics (4PH1) Paper 2PR

Question	Answer	Notes	Marks
number		Notes	
2 (a) (i)	<pre>substitution into F = (mv - mu)/t; evaluation; correct direction;</pre>	-1 if POT error independent mark 208.3 scores 2 marks max. if given with correct direction	3
	e.g. (F =) (6.74.2) / 0.012 (F =) 910 (N) (direction =) right	allow 908.3(N) allow forwards ignore compass directions 0.9083 scores 1 mark	
(ii)	e.g. (F =) 910 (N) AND (direction =) left	allow ECF from (a)(i) for both points allow ECF for compass direction only if opposite to direction given in (i)	1
	(iii) / iii (iii) / iiii (iii) (iii) (iii) (iii)		
(b)	any three from: MP1. idea that there is a change of momentum (when ball hits player); MP2. (equipment) increases (impact) time; MP3. decreases rate of change of momentum (of ball); MP4. decreases force (on player); MP5. decreases pressure (on player);	allow spreads force over larger area	3

Total for Question 2 = 7 marks