Question number			Answer	Notes	Marks
1	(a)		C; A cannot be correct as the angle of reflection is not equal to the angle of reflection. B and D cannot be correct as the ray penetrates into the mirror rather than reflects.		1
	(b)		protractor;		1
	(c)	(i)	attempt at measuring the (time) difference between the two peaks; 2.5 s;	award both marks if correct answer on answer line	2
		(ii)	substitution and rearrangement into given eqn; evaluation; correct answer: 750 000 (km) e.g. distance = speed × time distance = 300 000 × 2.5 distance = 750 000 (km)	ECF from (c)(i) accept answer given in standard form	2
		(iii)	division of candidate's answer for (ii) by 2; correct answer: 375 000 (km)		1

Total for Question 1 = 7 marks