

Question number	Answer	Notes	Marks
8 (a) (i)	Gradient of graph / attempt; Answer; Unit; e.g. $2 / 1.26$ $1.6$ $\text{m/s}^2$	ALLOW value truncated or correctly rounded from 1.587301587... (no sf penalty)	1 1 1
(ii)	Area under graph / attempt; Answer; e.g. $\frac{1}{2} \times 1.26 \times 2$ $1.26 \text{ (m)}$		1 1
(b)	Moon has less <u>mass</u> (than Earth) / Moon has lower density (than Earth) / ORA for either;	IGNORE 'Moon is smaller'	1
(c)	ANY FOUR of Feather is lighter / has less mass / weighs less; reaches terminal velocity / drag = weight; earlier / sooner / before hammer; (because) smaller (drag) force needed; (so) average velocity of feather is lower / falls slower;	IGNORE surface area	4
		<b>Total</b>	<b>10</b>