Question Number	Answer	Mark
13(a)	Use of $E_k = ½\ m\ v^2$ **(1)** $E_k = 2.1 \times 10^9$ (J) **(1)** Example calculation $E_k = 0.5 \times 7.2 \times 10^5$ kg $\times$ (76 m s^{-1})$^2 = 2.08 \times 10^9$ J	**2**
13(b)	Use of $P = W / t$ **(1)** $D = 8.0 \times 10^8$ J (ecf from (a)) **(1)** Example calculation $W = 16 \times 10^6$ W $\times$ 180 s $= 2.9 \times 10^9$ J $D = 2.9 \times 10^9$ J $- 2.1 \times 10^9$ J $= 8.0 \times 10^8$ J	**2**
	Total for question 13	**4**