Question Number	Answer		Mark
11(a)	Use of $W = mg$	**(1)**	
	Use of $F = ma$	**(1)**	
	$a = 4.8$ m s^{-2}	**(1)**	**3**
	Example calculation $W = 5.0 \times 10^6 \text{kg} \times 9.81 \text{ N kg}^{-1} = 4.91 \times 10^7 \text{ N}$ $\Sigma F = 7.3 \times 10^7 \text{ N} - 4.91 \times 10^7 \text{kg} = 5.0 \times 10^6 \text{ kg} \times a$ $a = \frac{2.39 \times 10^7 \text{ N}}{5.0 \times 10^6 \text{ kg}} = 4.78 \text{ m s}^{-2}$		
11(b)	The mass / weight of the rocket / fuel decreases (because fuel is used up) **Or** The thrust force increases **Or** The resultant force increases	**(1)**	**1**
	Total for question 11		**4**