Question Number	Answer		Mark
11(a)	The (vector) sum of all forces (acting on an object) **Or** The single force that would have the same effect as all the other forces acting together [Treat "net force" as synonym for "resultant force", so no mark]	**(1)**	**1**
11(b)	Use of $F = m\,a$ [allow 3.1 kN or 5.5 kN (0.41 or 0.73 (m s^{-2}) respectively)] $a = 3.2 \times 10^{-1}$ m s^{-2} Example of calculation $(5.5 - 3.1) \times 10^3$ N $= 7.5 \times 10^3$ kg $\times a$ $a = 2.4 \times 10^3$ N $\div 7.5 \times 10^3$ kg $= 0.32$ m s^{-2}	**(1)** **(1)**	**2**
11(c)	Use of $P = W / t$ **and** $\Delta W = F\,\Delta x$ [allow $P = F\,v$] [allow 2.4 kN or 3.1 kN (1.2×10^4 or 1.5×10^4 (W) respectively)] $P = 2.6 \times 10^4$ W [or J s^{-1}] Example of calculation $P = W / t = F\,\Delta x / t = F\,v$ $= 5.5 \times 10^3$ N $\times 4.8$ m $s^{-1} = 2.64 \times 10^4$ W	**(1)** **(1)**	**2**
	Total for question 11		**5**