

Question number	Answer	Marks	Guidance
<b>1 a</b>	Force (between two masses) = $\frac{\text{Gravitational constant} \times \text{mass}_1 \times \text{mass}_2}{\text{distance between centres}^2}$	B2	Maximum one out of two if any variable is not defined  <b>ALLOW</b> proportionality rather than equality $F \propto \frac{m_1 m_2}{d^2}$  $F = \frac{G m_1 m_2}{d^2}$ for first mark with symbols defined for second mark  $F$ = force, $m_1$ and $m_2$ are the masses of the bodies ( $G$ = gravitational constant), $d$ is the distance between centres of bodies
<b>1 b</b>	$F = \frac{G m_1 m_2}{d^2} = \frac{6.67 \times 10^{-11} \times 4.87 \times 10^{24} \times 2.00}{(6.05 \times 10^6)^2}$ $F = 17.8 \text{ N}$	C1 A1	
<b>1 c</b>	$F_E = \frac{Gm \times 6.0 \times 10^{24}}{d^2}$ $F_M = \frac{Gm \times 7.4 \times 10^{22}}{(3.8 \times 10^8 - d)^2}$ $\frac{Gm \times 7.4 \times 10^{22}}{(3.8 \times 10^8 - d)^2} = \frac{Gm \times 6.0 \times 10^{24}}{d^2}$ $d^2 = \left( \frac{6.0 \times 10^{24}}{7.4 \times 10^{22}} \right) (3.8 \times 10^8 - d)^2$ $d^2 = (81.081) (3.8 \times 10^8 - d)^2$ $d = 9.005 (3.8 \times 10^8 - d)$ $d = 3.42 \times 10^8 \text{ m}$	C1 C1  C1 A1	$m$ is mass placed on the line joining centres at a distance, $d$ , from Earth centre  <b>ALLOW</b> any subject here
<b>2 a</b>	potential = - $\frac{G \times \text{mass (of Earth)}}{\text{distance from centre (of Earth)}}$	B2	<b>ALLOW</b> Max 1 out of 2 marks, if minus sign is omitted
<b>2 b</b>	Speed needed to escape from gravitational pull of a massive body to infinity, without supply of energy/burning fuel (AWW)  Speed at which the object's kinetic energy is	B1  B1	

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**JL Elias**



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