

Page 5	Mark Scheme IGCSE – May/June 2013	Syllabus 0625	Paper 33	
4	(a) 85 000 N (accept 83.300 N)		B1	
	(b) (i) $(P =)F/A$ OR $85\,000/3.4$ OR $85\,000/3.4 \times 2$ OR $85\,000/6.8$ (e.c.f. from (a)(i)) 1.2/1.25/1.3 $\times 10^4$ Pa (e.c.f. from (a)(i))		C1 A1	
	(ii) larger area smaller pressure		M1 A1	
	(c) (i) (measure of) turning effect OR $F \times x$		B1	
	(ii) no resultant/net force no resultant/net turning effect/moment		B1 B1	[8]
5	(a) any two of: boiling throughout liquid (evaporation at surface), boiling at one temperature (evaporation at any / all temperature / below boiling point), boiling not affected by draught/area (evaporation is), boiling produces bubbles (evaporation does not).		B2	
	(b) (thermal energy) does work against intermolecular forces / breaks bonds molecules separated/moved apart OR becomes PE		B1 B1	
	(c) apparatus: e.g. kettle AND balance / scales OR steam condensing in water with measuring cylinder / scales AND thermometer two masses determined OR volume/mass condensed determine energy input: e.g. VIt or Pt or $mc\Delta T$ ($L =)Q/m$		B1 B1 B1 B1	[8]
6	(a) (i) any two of: (gas) molecules further apart greater PE move singly / in straight lines OR vice versa for, <u>liquid</u> molecules (allow faster)		B2	
	(ii) gases compressible OR liquids incompressible forces between gas molecules weaker OR vice versa for liquid molecules		B1 B1	
	(b) (i) $pV = \text{constant}$ OR $p_1V_1 = p_2V_2$ OR $2.6 \times 10^5 \times 0.035$ OR 91 000 $2.6 \times 10^5 \times 0.035/1.0 \times 10^5$ OR $91\,000/1.0 \times 10^5$ 0.91 m ³		C1 C1 A1	
	(ii) slower / less KE		B1	[8]

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