TURNING EFFECT OF A FORCE

1. B

2. C

3. B

4. c [M1]

clockwise moment (accept moment on RH side) was too big [A1] reduce moment by reducing distance [A1] note: moment must be mentioned in both of the last 2 marks; accept turning effect, torque and leverage as alternatives to moment

5.

6.

(a)	0.96		accept '0.06 × 16'	1	
	Ncm		accept 'cmN' accept for both marks '0.0096 Nm' do not accept lower case n for N the mark for the unit may be given in (b) (i) provided it is not contradicted in part (a)	1	
(b)	(i)	any one from		1	
		□ 0. 96 Ncm			
		the same as the carbon did	oxide balloon accept the same numerical answer given in (a) (the unit is not required) accept 'the same'		
	(ii)	0.02	consequential marking applies accept numerical answer to (b) (i)÷48	1	[4]
(a)	dowr	1		1	
(b)	Ellie and Maggy		names may be in either order both names are required for the mark do not accept '540 and 540' this rules out the same person being used twice	1	



[4]