

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.

(a) 0.96 *accept '0.06 × 16'* 1
Ncm *accept 'cmN'* 1
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)

(b) (i) any one from 1
□ 0.96 Ncm
□ the same as the carbon dioxide balloon
accept the same numerical answer given
in (a) (the unit is not required)
accept 'the same'

(ii) 0.02 1
consequential marking applies
accept numerical answer to (b) (i) ÷ 48

[4]

6.

(a) down 1

(b) Ellie and Maggy 1
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

(c) A B

1

award the mark if only one of these correct responses is given provided an incorrect response is not written in the other box

(d) any one from
· Rosie
· Jack
· Rosie or Jack

1

*do not accept '490'
do not accept '510'
do not accept '490 or 510'
do not accept 'Rosie and Jack'*

[4]