Moments, levers and gears

Answers

GCSE science calculations

This topic online

Q	Answer	Marks
1	9.0 N m	2
2	22.5 N m	2
3	15 N m	3
4	54 000 N m	3
5	12 N m	3
6	45 N	2
7	0.27 m	3
8	15 cm	3
9	2000 N	3
10	**a)** 30 N **b)** 2.7 N m	4
11	**a)** 0.588 N m **b)** 90 cm	5
12	**a)** 705.6 N m **b)** 490 N m **c)** open: No. To balance, Bilal's moment must be 705.6 N m, so he would need to sit 705.6 ÷ 245 = 2.88 m from the pivot. Each side is only 2.4 m long, so he cannot sit far enough out.	5

Full worked solutions, written out by hand, are on the solutions sheet for this topic.

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