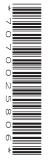


# AS Level Mathematics B (MEI)

**H630/01** Pure Mathematics and Mechanics Printed Answer Booklet

## Wednesday 16 May 2018 – Morning Time allowed: 1 hour 30 minutes



#### You must have: • Question Paper H630/01 (inserted)

You may use:

• a scientific or graphical calculator



First name	
Last name	
Centre number	Candidate number

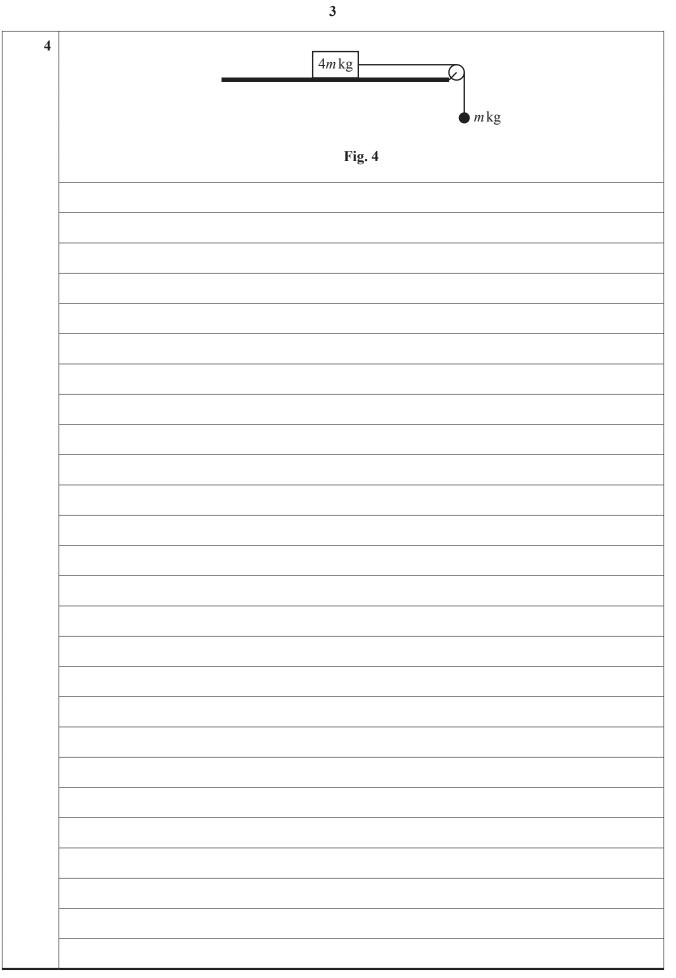
### INSTRUCTIONS

- The Question Paper will be found inside the Printed Answer Booklet.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Complete the boxes provided on the Printed Answer Booklet with your name, centre number and candidate number.
- Answer all the questions.
- Write your answer to each question in the space provided in the Printed Answer **Booklet.** If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the barcodes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.
- The acceleration due to gravity is denoted by  $g \,\mathrm{m}\,\mathrm{s}^{-2}$ . Unless otherwise instructed, when a numerical value is needed, use g = 9.8.

### INFORMATION

- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is used. You should communicate your method with correct reasoning.
- The Printed Answer Booklet consists of 16 pages. The Question Paper consists of 8 pages.

1	
2	
3	



4	
4	

5(i)	
5(ii)	
5(iii)	
5 (m)	

6 (i)	
6(ii)	

7	

8	
	(answer space continued on next page)

8	(continued)
0	(continueu)
<b>A</b> ( <b>1</b> )	
9(i)	

9(ii)	

10(i)	
10(ii)	
10 (iii)	
10 (iii)	
10 (iii)	
10(iii)	
10 (iii)	
10 (iiii)	
10 (iii)	
10 (iiii)	
10 (iii)	
10 (iii)	
10 (iii)	

10(iv)	
10 (v)	
10(1)	
10 (vi)	

11 (i)				
11 (ii)				
11 (iii)				1
		$\ln x$	lny	
	Mercury			
	Jupiter			
11 (iv)				

11 (v)	
11 (	
11 (vi)	
11(vii)	

### ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).



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