
MATHEMATICS

0845/01

Paper 1

October 2017

MARK SCHEME

Maximum Mark: 40

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Markers were instructed to award marks. It does not indicate the details of the discussions that took place at a Markers' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the End of Series report. Cambridge will not enter into discussions about these mark schemes.


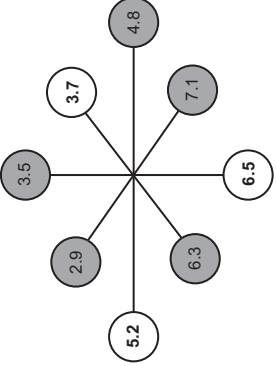
This document consists of **9** printed pages and **1** blank page.

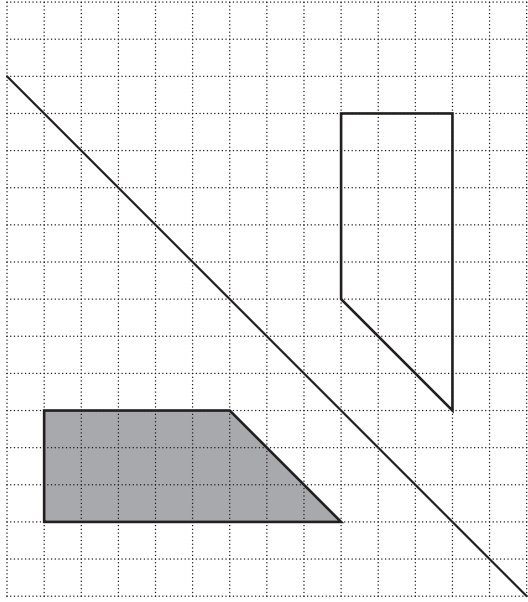
Mark scheme annotations and abbreviations

M1	method mark
A1	accuracy mark
B1	independent mark
FT	follow through after error
dep	dependent
oe	or equivalent
cao	correct answer only
isw	ignore subsequent working
soi	seen or implied

Question	Answer	Marks	Further information
1	8	1	
Question	Answer	Marks	Further Information
2	650	1	
Question	Answer	Marks	Further Information
3	2390 (people)	1	
Question	Answer	Marks	Further Information
4	16 (cm)	1	
Question	Answer	Marks	Further Information
5	34 (36) 43 56 (64) 67	1	Both must be circled for the mark to be awarded.
Question	Answer	Marks	Further Information
6(a)	9 (children)	1	
6(b)	28 (children)	1	

Question	Answer	Marks	Further Information
7	763, 736, 673, 637, 376, 367	2	All six answers in order with no additional answers.
	Five correct answers in the correct order.		B1 Do not accept reverse order.
Question	Answer	Marks	Further Information
8	7:15	1	Accept equivalent answers.
Question	Answer	Marks	Further Information
9(a)	1024	1	
9(b)	19 140	1	
Question	Answer	Marks	Further Information
10	5 (crates)	1	Do not accept 4 remainder 6
Question	Answer	Marks	Further Information
11	2.25 (metres)	1	Correct answer only.

Question	Answer	Marks	Further Information
18	36 or 81	1	
19	$\frac{4}{8}$ $\frac{6}{8}$ $\frac{9}{12}$ $\frac{2}{8}$ 	1	
20	1 (minute(s)) 38 (second(s))	1	
21	7 (red balls)	1	
22		1	All three answers must be correct for the award of the mark.

Question	Answer	Marks	Further Information								
23		1	Accept slight inaccuracies in the drawing if the intention is clear.								
Question	Answer	Marks	Further Information								
24	6	1									
Question	Answer	Marks	Further Information								
25	<table border="1" data-bbox="1070 1256 1214 1727"> <tbody> <tr> <td>$6.25 \times 10 = 62.5$</td> <td>True</td> </tr> <tr> <td>$625 \div 10 = 6.25$</td> <td>False</td> </tr> <tr> <td>$0.625 \times 100 = 62.5$</td> <td>False</td> </tr> <tr> <td>$6250 \div 100 = 62.5$</td> <td>True</td> </tr> </tbody> </table>	$6.25 \times 10 = 62.5$	True	$625 \div 10 = 6.25$	False	$0.625 \times 100 = 62.5$	False	$6250 \div 100 = 62.5$	True	1	All three answers must be correct for the award of the mark.
$6.25 \times 10 = 62.5$	True										
$625 \div 10 = 6.25$	False										
$0.625 \times 100 = 62.5$	False										
$6250 \div 100 = 62.5$	True										
Question	Answer	Marks	Further Information								
26	1.7, 1.4, 1.1	1	All three answers must be correct for the award of the mark.								

Question	Answer	Marks	Further Information
27	20×1800 60×60 400×90 30×120	1	Both must be circled for the award of the mark.
Question	Answer	Marks	Further Information
28	2.06 2.35 2.4 2.6 2.95	1	
Question	Answer	Marks	Further Information
29		2	
	a correct method containing any number of arithmetic errors, e.g.: $85 + [\frac{1}{3}(130 - 85)]$ and $130 - [\frac{1}{3}(130 - 85)]$ 100 or 115 in incorrect box.	M1	Award only one of M1 or B1
		B1	
Question	Answer	Marks	Further Information
30	E D A B C	2	All five answers correct.
	three or four answers correct.	B1	

Question	Answer	Marks	Further Information
31	$63 \div 9 = 7$ $0.7 \times 90 = 63$ $63 \div 70 = 0.9$ $0.9 \times 7 = 6.3$ Two correct answers.	2	Three correct answers.
		B1	
Question	Answer	Marks	Further Information
32	$\frac{9}{16}$ $\frac{2}{3}$ $\frac{3}{8}$ $\frac{5}{8}$	1	

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