



Cambridge Primary Checkpoint

MATHEMATICS

0845/02

Paper 2

October 2021

MARK SCHEME

Maximum Mark: 40

Published

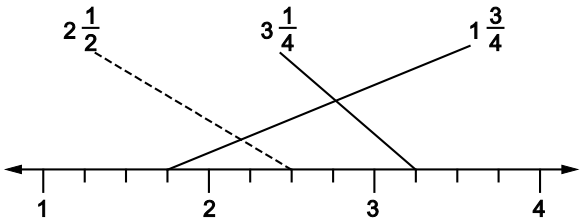
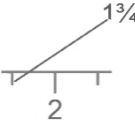
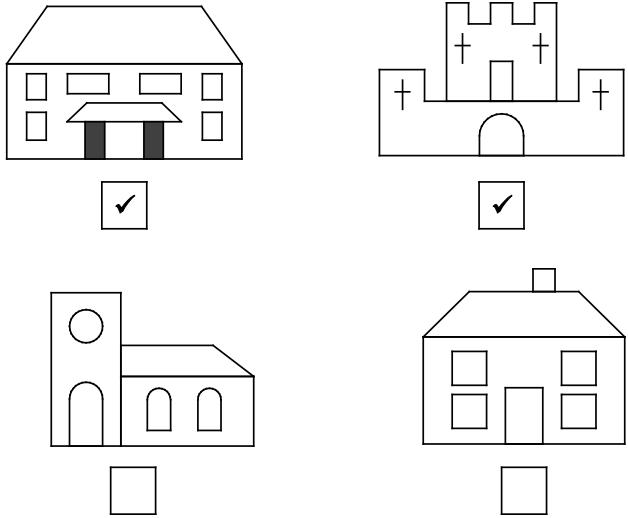
This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Markers were instructed to award marks. It does not indicate the details of the discussions that took place at a Markers' meeting before marking began, which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

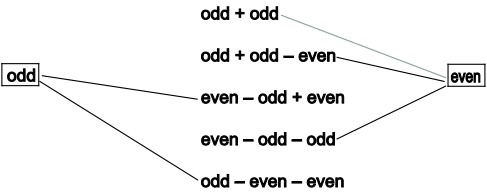

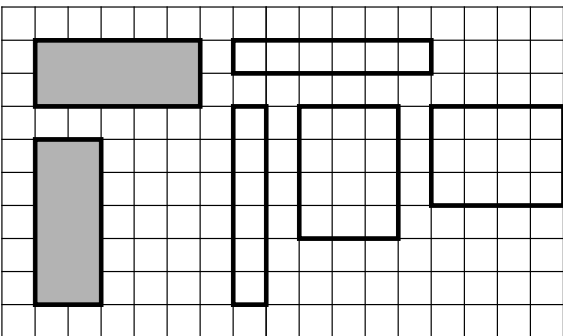
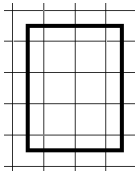
Mark schemes should be read in conjunction with the question paper and the End of Series Report. Cambridge will not enter into discussions about these mark schemes.

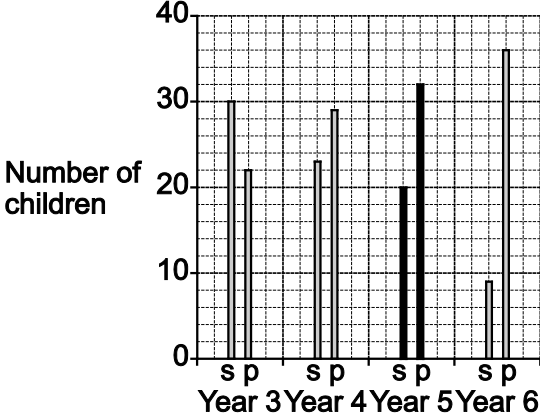
This document has **10** pages. Any blank pages are indicated.

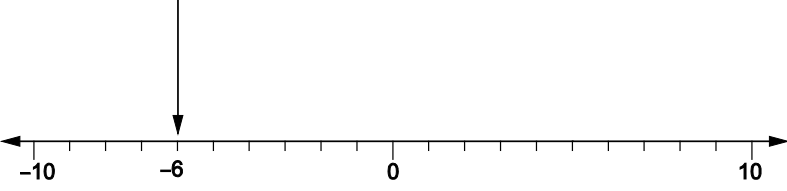
Mark scheme annotations and abbreviations

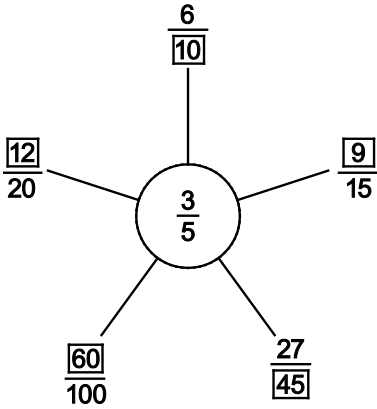
M1	method mark
A1	accuracy mark
B1	independent mark
FT	follow through after error
dep	dependent
oe	or equivalent
cao	correct answer only
isw	ignore subsequent working
soi	seen or implied

Question	Answer	Marks	Further Information
1		1	<p>Allow lines to any point On the correct mark e.g. </p> <p>Allow any clear indication of the correct matching e.g. mixed nos on the line.</p>
2		1	<p>Both ticked with no additional ticks.</p> <p>Any clear indication of the correct answers.</p>
3	<p>'No' with any correct counter-example</p>	1	<p>Do not accept 'No' without a valid explanation.</p> <p>If a list of multiples of 3 are given which includes numbers ending in any digit there must be a statement to indicate that some do not end in 3,6 or 9</p>

Question	Answer	Marks	Further Information
4	 <p>odd + odd odd + odd - even even - odd + even even - odd - odd odd - even - even</p>	2	
5	3 correct.	B1	
6		1	Accept 19 (April)
7	$17 \times 5 = 85$ or $18 \times 5 = 90$	1	Accept $85 \times \frac{1}{5} = 17$ or $90 \times \frac{1}{5} = 18$
8		1	Award the mark for any one of the rectangles shown: 1×6 6×1 3×4 4×3 Allow if accurate on grid even if vertices not at intersections of the grid e.g.  Also allow correct fractions e.g. $2\frac{1}{2} \times 4\frac{1}{2}$ If drawn accurately

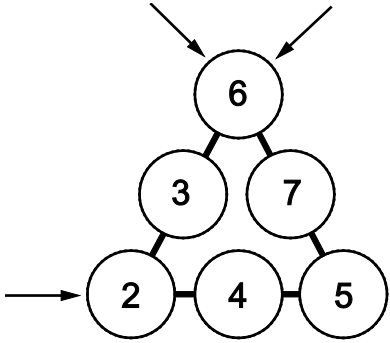
Question	Answer	Marks	Further Information
9 4GI4	6.5 (kg)	1	Award 1 mark for 6.4 - 6.6kg inclusive . Accept 6 kg 500g if correct units given or any other equivalent.
10	66.5 and layout 32.5	1	Both answers must be given for 1 mark.
11(a)	 <p>Number of children</p> <p>Year 3 Year 4 Year 5 Year 6</p>		Bars for year 5 represent 20 and 32 children respectively.
(b)	2 (children)	1	

Question	Answer	Marks	Further Information
12		1	Any clear indication of correct position selected. -6 does not have to be labelled.
13	3 squares left 2 squares down	1	Accept the instructions in either order. Accept $\begin{pmatrix} -3 \\ -2 \end{pmatrix}$ Do not accept reference to compass points.
14	$\frac{1}{\boxed{2}} = \frac{\boxed{4}}{8} \quad \text{or} \quad \frac{1}{\boxed{4}} = \frac{\boxed{2}}{8}$ $\frac{\boxed{3}}{4} = \frac{6}{\boxed{8}} \quad \text{or} \quad \frac{\boxed{8}}{4} = \frac{6}{\boxed{3}}$ $\frac{3}{\boxed{5}} = \frac{\boxed{6}}{10} \quad \text{or} \quad \frac{3}{\boxed{6}} = \frac{\boxed{5}}{10}$	2	
	1 or 2 correct lines with no digit cards repeated.	B1	Only the given numbers can be used

Question	Answer	Marks	Further Information
15	$\bigcirc = 4$ $\square = 8$ $\triangle = 9$	1	All answers must be correct for 1 mark.
16 5Gs7 PS	40 (°)	1	
17 6Nn22		2	Award 2 marks for all answers correct.
18	7 and layout 9 1 correct answer	2 B1	Do not accept 10 – 1 or 1 – 10 for the range.

Question	Answer	Marks	Further Information
19 6Nn27		2	Award 2 marks for all 4 lines correctly placed.
	For 2 or 3 lines correctly joined.	B1	
20 6Gs2	8 12 Table 6	2	All 3 correct
	2 correct	B1	
	(\$)1.98	2	
21	For correct method e.g. $2.99 - [25 - (6.99 + 2 \times 8.50)]$	M1	Accept any number of arithmetic errors.

Question	Answer	Marks	Further Information										
22 6Nn19	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">21</td> <td style="width: 20px;">22</td> <td style="width: 20px; border: 2px solid black;">23</td> <td style="width: 20px;">24</td> <td style="width: 20px;">25</td> <td style="width: 20px;">26</td> <td style="width: 20px;">27</td> <td style="width: 20px;">28</td> <td style="width: 20px; border: 2px solid black;">29</td> <td style="width: 20px;">30</td> </tr> </table>	21	22	23	24	25	26	27	28	29	30	1	Both numbers circled with no extras for the mark. Accept any clear indication.
21	22	23	24	25	26	27	28	29	30				
23 (a)	1010	1											
(b)	-10	1											
24	A = D B = E C = F	1	All 3 correct for the award of the mark. Allow if the correct numbers are used instead of letters.										
25	-11 (°C)	1	Do not accept 11-										
26	27.09 (m ²)	2	Award 2 marks for the correct answer										
	For a correct method e.g. (4.5 x 6.5) - (1.2 x 1.8) or (4.7 x 4.5) + (1.8 x 3.3) or (6.5 x 3.3) + (1.2 x 4.7)	M1	Accept any number of arithmetic errors.										

Question	Answer	Marks	Further Information
27		2	All three numbers correct: 632, 675 and 245
	For any 2 three-digit numbers that fit the criteria.	B1	Do not allow repeated digits.
28	1,1,1,3,3,4 or 1,1,1,3,4,4 and second spinner shows 9 in each section	2	Numbers can be in any sector within the spinner.
	1 correct answer	B1	