Cambridge International Examinations
Cambridge Primary Checkpoint

MATHEMATICS **0845/02**

Paper 2 **April 2018**

MARK SCHEME

Maximum Mark: 40

IMPORTANT NOTICE

Mark Schemes have been issued on the basis of **one** copy per Assistant examiner and two copies per Team Leader.

IB18 05_0845_02/4RP
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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

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Question	Answer	Marks	Further Information
1	4076	**1**	

Question	Answer	Marks	Further Information
2	130 (g)	**1**	May be on diagram

Question	Answer	Marks	Further Information
3	<table><tr><td>60</td><td>**50**</td><td>**10**</td></tr><tr><td>**40**</td><td></td><td>80</td></tr><tr><td>**20**</td><td>**70**</td><td>30</td></tr></table>	**2**	Award 2 marks for all 5 entries correct.
	Any 2 or 3 sides adding to 120	B1	

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Question	Answer	Marks	Further Information
4	even + even even − odd odd + even odd − odd even odd	**1**	All three lines must be correct with no additional lines for the award of the mark.

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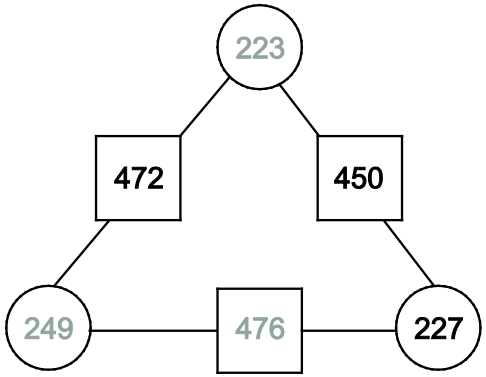
Question	Answer	Marks	Further Information
5	$\frac{2}{4}$	**1**	

Question	Answer	Marks	Further Information
6(a)	45 (students)	**1**	
6(b)	An explanation that shows more students ride bicycles in week 2, for example: • 15 students ride bicycles in week 1 and 20 students ride bicycles in week 2	**1**	Must be evaluated. Do not accept just a repeat of the given information, e.g. repeating the value of each symbol.

Question	Answer	Marks	Further Information
7		**1**	All 3 numbers must be correct for the award of the mark.

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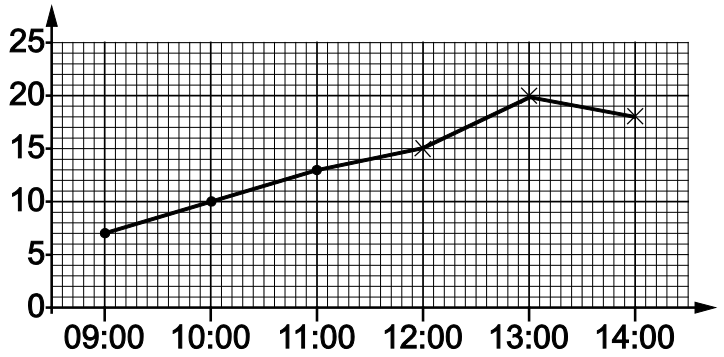
Question	Answer	Marks	Further Information
8	2 north 3 east 1 north 3 east	**1**	

Question	Answer	Marks	Further Information
9		**2**	Award 2 marks for all 3 points correct. Accept points not joined. Ignore interim points if not connected.
	2 points correct.	B1	

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Question	Answer	Marks	Further Information
10	8 (16) 20 (36) 45 54 (64) 70	**1**	All 3 must be correct with no wrong answers.

Question	Answer	Marks	Further Information
11	<table><tr><th></th><th>To the nearest whole number</th></tr><tr><td>24.6 × 8</td><td>197</td></tr><tr><td>348 ÷ 7.5</td><td>46</td></tr><tr><td>5091.5 ÷ 17</td><td>300</td></tr><tr><td>471.9 × 9.1</td><td>4294</td></tr></table>	**2**	All four must be correct for 2 marks. Do not accept e.g. 46.00 300.00 4294.00
	2 or 3 correct answers.	B1	

Question	Answer	Marks	Further Information
12	8 (fish)	**1**	

Question	Answer	Marks	Further Information
13	9 (tents)	**1**	Do not accept 8 remainder 2 or $8\frac{2}{9}$ etc.

Question	Answer	Marks	Further Information
14	750 (cm)	**1**	

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Question	Answer	Marks	Further Information
15(a)	3340 (cm)	**1**	
15(b)	0.334 (m)	**1**	

Question	Answer	Marks	Further Information
16(a)	Anastasia spins a number smaller than 8 Impossible ☐ Unlikely ☐ Even chance ☐ Likely ☑ Certain ☐ Anastasia spins a number that is a multiple of 12 Impossible ☑ Unlikely ☐ Even chance ☐ Likely ☐ Certain ☐	**1**	Both correct for 1 mark.
16(b)	An event connected to the spinner with probability of 0.5 e.g. ▪ getting an even number ▪ getting a number less than 6 ▪ getting a number greater than 5 ▪ getting a factor of 12	**1**	Do not award the mark for two exclusive examples given, e.g. “landing on an odd number or an even number.”

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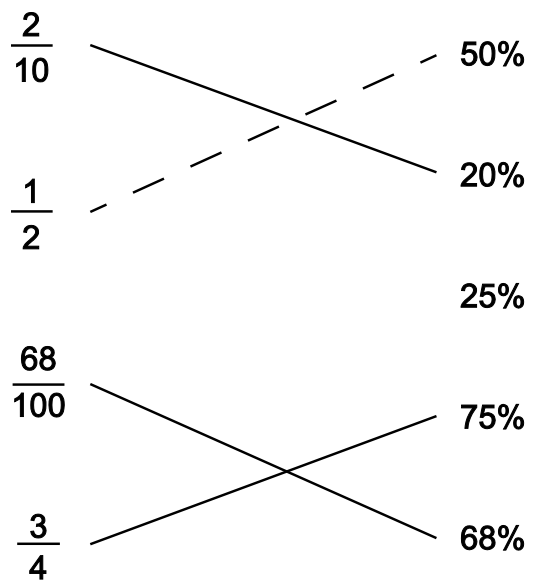
Question	Answer	Marks	Further Information
17		**1**	All 3 lines must be correct for 1 mark.

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Question	Answer	Marks	Further Information
18	$1 \times 42 = 42$ $2 \times 21 = 42$ $3 \times 14 = 42$ $6 \times 7 = 42$	**2**	All 4 calculations correct with no errors. Accept calculations in any order or commutative.
	2 or 3 calculations correct with no more than 2 incorrect calculations. **or** All 4 calculations correct with no more than 2 incorrect calculations.	B1	

Question	Answer	Marks	Further Information
19	20 90	**1**	Both answers required.

Question	Answer	Marks	Further Information
20(a)	A rectangle with a perimeter of 12 cm: 1×5 **or** 2×4 **or** 3×3	**1**	Vertices of rectangle must be placed on a dot.
20(b)	A rectangle with an area of 12 cm^2: 1×12 **or** 2×6 **or** 3×4	**1**	Vertices of rectangle must be placed on a dot.

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Question	Answer	Marks	Further Information
21	<table><tr><td></td><td>polygon</td><td>not a polygon</td></tr><tr><td>has right angles</td><td>A F</td><td>C</td></tr><tr><td>does not have right angles</td><td>B D</td><td>E</td></tr></table>	**2**	All 5 letters correct. Do not award mark for a letter in two sections.
	3 or 4 letters correct.	B1	

Question	Answer	Marks	Further Information
22	($) 4.25	**2**	
	Correct method containing any number of arithmetic errors: $(1.25 \times 25) - 27$	M1	

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Question	Answer	Marks	Further Information
23	**Onion Soup** **Serves 6** **60** g butter **3** large onions **1275** ml stock **4½** teaspoons flour	**2**	All four must be correct. Accept 4.5 teaspoons flour.
	2 or 3 correct answers.	B1	
	sight of × 1.5 or equivalent.	M1	

Question	Answer	Marks	Further Information
24	($) 5.25	**2**	
	Correct method containing any number of arithmetic errors, for example: 2 × 1.50 + 5 × (3 × 1.50 ÷ 10)	M1	
	sight of 0.45 or 45	B1	Units must be correct if shown.

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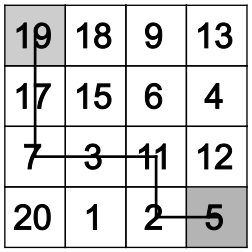
Question	Answer	Marks	Further Information
25	> **and** <	**1**	In the correct order.

Question	Answer	Marks	Further Information
26		**1**	

Question	Answer	Marks	Further Information
27	$(6 \times 1.5 + 4.9) \times 4 = 55.6$	**1**	

Question	Answer	Marks	Further Information
28	5 (minutes) 56 (seconds)	**1**	The answer must be given in minutes and seconds. Do not accept 5.93 recurring (minutes) or 356 (seconds).

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