	Cambridge Primary Checkpoint	Cambridge Cambridge	• Assessment Primary Chec	t International E o kpoint	ducation	
	CANDIDATE NAME					
	CENTRE NUMBER				CANDIDATE NUMBER	
* 3 1	MATHEMATICS	S				0845/02
8 7	Paper 2					October 2019
9 0						45 minutes
_	Candidates ans	wer on the Q	uestion Paper.			
6 1 3 *	Additional Mate	rials: Pe Pe Ru	n ncil ıler		Protractor Calculator Tracing paper (optiona	al)

READ THESE INSTRUCTIONS FIRST

Write your centre number, candidate number and name in the spaces at the top of this page. Write in dark blue or black pen.

DO NOT WRITE IN ANY BARCODES.

Answer **all** questions. Calculator allowed.

The number of marks is given in brackets [] at the end of each question or part question. You should show all your working in the booklet. The total number of marks for this paper is 40.

This document consists of 18 printed pages and 2 blank pages.



1 Mike records the favourite animal of some students on a bar chart.

(a) How many more students choose lion than tiger?

students [1]

(b) 9 students choose cheetah.

Draw a bar on the chart to show this. [1]

2 Put angles A, B, C and D in order starting with the largest.



3 What fraction of the regular hexagon is shaded?



 [1]
 [,]

4 Here are four fraction cards.



Write one fraction in each box to make these statements correct. Use each card once.



5 Here is a pattern made with black and white tiles.



It continues in the same way.

In a pattern made of 32 tiles, how many are black?

[1]

[2]

6 68 children go to a party.Each child is given a balloon.The balloons are in packets of 3

How many whole packets are needed?

packets [1]

7 Here is a list of numbers.

4601 4548 4635 4590 4610

5

Yuri rounds each of these numbers to the nearest 100 Draw a ring around the number that does **not** round to 4600

[1]

8 Pierre estimates the area of his name label using counters.



Ahmed says that this is not accurate.

He has not covered all of the space inside the shape.

What could he use to estimate the area more accurately?

.....[1]

9 Here are four digit cards.



Use each of the digits once to complete this sum. The total must be a multiple of 5



10 Write a digit in each box to make the calculation correct.



[2]

11 (a) Here is a circle with six equally spaced dots.

Join three of the dots to make an **equilateral** triangle. Use a ruler.



(b) Here is a circle with eight equally spaced dots.

Join three of the dots to make an **isosceles** triangle. Use a ruler.



12 Chen throws three dice and adds his scores together. He does this fifteen times.

Here are his results.

8 12 16 15 6 12 17 13 13 15 10 12 9 11 18

He organises the scores into a frequency table.

Frequency table of scores								
Scores	Tally	Frequency						
3-6								
7–10								
11–14								
15–18								

Complete both the tally **and** the frequency columns in the table.

[2]

- mirror line
- **13** Draw the reflection of this shape in the mirror line. Use a ruler.

14 Here is part of a number line.



Write the missing mixed number in each box.

[1]

[2]

15 Here are six number cards.



Use each card once to complete the number sentences.



[1]

16 Round these decimals to the nearest tenth.



17 Write **one** number in each box to make the statements correct.



18 Complete these sentences.



- (b) 5 out of 20 is the same as %. [1]
- **19** Mia is thinking of a number.



Write Mia's number.

12

20 The date is 24 June.

			Janua	ary						Febru	lary						Marc	h		
s	М	т	W	т	F	s	s	М	т	w	т	F	s	s	М	т	w	т	F	s
			1	2	3	4							1							1
5	6	7	8	9	10	11	2	3	4	5	6	7	8	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15	9	10	11	12	13	14	15
19	20	21	22	23	24	25	16	17	18	19	20	21	22	16	17	18	19	20	21	22
26	27	28	29	30	31		23	24	25	26	27	28		23	24	25	26	27	28	29
														30	31					
			April							Мау							June			
S	М	т	W	т	F	S	s	М	т	W	т	F	S	s	Μ	т	W	т	F	S
		1	2	3	4	5					1	2	3	1	2	3	4	5	6	7
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30				25	26	27	28	29	30	31	29	30					
July																				
			July							Augu	st					Sej	otemb	er		
s	м	т	July W	т	F	s	s	м	т	Augu W	ist T	F	s	s	М	Sej T	otemb W	er T	F	s
s	м	T 1	July W 2	т 3	F 4	S 5	s	М	т	Augu W	rst T	F 1	s 2	s	M 1	Sej T 2	otemb W 3	oer T 4	F 5	S 6
S 6	М 7	T 1 8	July W 2 9	т 3 10	F 4 11	s 5 12	s 3	M 4	т 5	Augu W	rst T 7	F 1 8	s 2 9	S 7	M 1 8	Sej T 2 9	otemb W 3 10	Der T 4 11	F 5 12	s 6 13
s 6 13	M 7 14	T 1 8 15	July W 2 9 16	T 3 10 17	F 4 11 18	s 5 12 19	s 3 10	M 4 11	T 5 12	Augu W 6 13	rst T 7 14	F 1 8 15	s 2 9 16	S 7 14	M 1 8 15	Seg T 2 9 16	W 3 10 17	Per T 4 11 18	F 5 12 19	s 6 13 20
s 6 13 20	M 7 14 21	T 1 8 15 22	July W 2 9 16 23	T 3 10 17 24	F 4 11 18 25	s 5 12 19 26	s 3 10 17	M 4 11 18	T 5 12 19	Augu W 6 13 20	r st T 7 14 21	F 1 8 15 22	s 2 9 16 23	S 7 14 21	M 1 8 15 22	Ser T 2 9 16 23	W 3 10 17 24	ber T 4 11 18 25	F 5 12 19 26	s 6 13 20 27
s 6 13 20 27	M 7 14 21 28	T 1 8 15 22 29	July W 2 9 16 23 30	T 3 10 17 24 31	F 4 11 18 25	s 5 12 19 26	s 3 10 17 24	M 4 11 18 25	T 5 12 19 26	Augu W 6 13 20 27	rst T 7 14 21 28	F 1 8 15 22 29	s 2 9 16 23 30	s 7 14 21 28	M 1 15 22 29	Seg T 2 9 16 23 30	otemb W 3 10 17 24	F T 4 11 18 25	F 5 12 19 26	s 6 13 20 27
s 6 13 20 27	M 7 14 21 28	T 1 15 22 29	July W 2 9 16 23 30	T 3 10 17 24 31	F 4 11 18 25	S 5 12 19 26	s 3 10 17 24 31	M 11 18 25	T 5 12 19 26	Augu W 6 13 20 27	r T 7 14 21 28	F 1 15 22 29	s 2 9 16 23 30	s 7 14 21 28	M 1 15 22 29	Sej T 2 9 16 23 30	W 3 10 17 24	F T 4 11 18 25	F 5 12 19 26	s 6 13 20 27
s 6 13 20 27	M 7 14 21 28	T 1 15 22 29	July W 2 9 16 23 30	T 3 10 17 24 31	F 4 11 18 25	s 5 12 19 26	s 3 10 17 24 31	M 4 11 18 25	T 5 12 19 26 No	Augu W 6 13 20 27	T 7 14 21 28	F 1 15 22 29	s 9 16 23 30	S 7 14 21 28	M 1 15 22 29	Seg 7 9 16 23 30	otemk W 3 10 17 24	F 7 4 11 18 25 25	F 5 12 19 26	s 6 13 20 27
s 6 13 20 27 s	M 7 14 21 28 M	T 1 15 22 29 C T	July W 2 9 16 23 30 Detobe W	T 3 10 17 24 31 31	F 4 11 18 25 F	s 5 12 19 26 s	s 3 10 17 24 31 s	M 4 11 18 25 M	T 5 12 19 26 No T	Augu W 6 13 20 27 Vemb W	T 7 14 21 28 Per T	F 1 15 22 29 F	s 9 16 23 30 s	s 7 14 21 28 s	M 1 15 22 29 M	Ser T 2 9 16 23 30 T	otemb W 3 10 17 24 Decem W	er T 4 11 18 25 Deer T	F 5 12 19 26 F	s 6 13 20 27 s
s 6 13 20 27 s	M 7 14 21 28 M	T 1 8 15 22 29 C T	July W 2 9 16 23 30 Detobe W 1	T 3 10 17 24 31 27 T 2	F 4 11 18 25 F 3	s 5 12 19 26 s 4	s 3 10 17 24 31 s	M 4 11 18 25 M	T 5 12 19 26 No T	Augu W 6 13 20 27 Vemb W	rist T 7 14 21 28 er T	F 1 8 15 22 29 F	s 9 16 23 30 s 1	s 7 14 21 28 s	M 1 8 15 22 29 M 1	Sey T 2 9 16 23 30 C T 2	W 3 10 17 24 Decem W 3	T 4 11 18 25 Iber T 4	F 5 12 19 26 F 5	s 6 13 20 27 s 6
s 6 13 20 27 s 5	M 7 14 21 28 M 6	T 1 8 15 22 29 C T 7	July W 2 9 16 23 30 20 20 20 00 00 00 00 00 00 00 00 00 00	T 3 10 17 24 31 24 31	F 4 11 18 25 F 3 10	s 5 12 19 26 s 4 11	s 3 10 17 24 31 s 2	M 4 11 18 25 M 3	T 5 12 19 26 No T 4	Augu W 6 13 20 27 Vvemb W 5	T 7 14 21 28 er T 6	F 1 8 15 22 29 F 7	s 9 16 23 30 s 1 8	s 7 14 21 28 s 7	 M 1 8 15 22 29 M 1 8 	Sep T 2 9 16 23 30 C T 2 9	Detemb W 3 10 17 24	ner T 4 11 18 25 25 Nber T 4 11	F 5 12 19 26 F 5 12	s 6 13 20 27 s 6 13
s 6 13 20 27 s 5 12	M 7 14 21 28 M 6 13	T 1 8 15 22 29 C T 7 14	July W 2 9 16 23 30 Detobe W 1 8 15	T 3 10 17 24 31 27 7 9 16	F 4 11 18 25 F 3 10 17	s 5 12 19 26 s 4 11 18	s 3 10 17 24 31 s 2 9	M 4 11 18 25 M 3 10	T 5 12 19 26 T 4 11	Augu W 6 13 20 27 Vemb W 5 12	rst T 7 14 21 28 28 rer T 6 13	F 1 8 15 22 29 F 7 14	s 2 9 16 23 30 s 1 8 15	s 7 14 21 28 s 7 14	 M 1 8 15 22 29 M 1 8 15 	Sep T 2 9 16 23 30 C T 2 9 16	Detemb W 3 10 17 24 Decemt W 3 10 17 24 10 117 10 117 10 10 10 10 17	ner T 4 11 18 25 25 25 25 25 25 25 25 25 25 25 25 25	F 5 12 19 26 F 5 12 19	s 6 13 20 27 s 6 13 20
s 6 13 20 27 s 5 12 19	M 7 14 21 28 M 6 13 20	T 1 8 15 22 29 C T 7 14 21	July W 2 9 16 23 30 23 30 Detobe W 1 8 15 22	T 3 10 17 24 31 24 31 er T 2 9 16 23	F 4 11 18 25 F 3 10 17 24	s 5 12 19 26 s 4 11 18 25	s 3 10 17 24 31 s 2 9 16	M 4 11 18 25 M 3 10 17	T 5 12 19 26 No T 4 11	Augu W 6 13 20 27 Vemb W 5 12 19	rst T 7 14 21 28 28 Per T 6 13 20	F 1 8 15 22 29 F 7 14 21	s 2 9 16 23 30 s 1 8 15 22	s 7 14 21 28 s 7 14 21	M 1 8 15 22 29 M 1 8 15 22	Sep T 2 9 16 23 30 T T 2 9 16 23	Detemb W 3 10 17 24 Deccent W 3 10 17 24 10 17 24	ner T 4 11 18 25 25 bber T 4 11 18 25	F 5 12 19 26 F 5 12 19 26	s 6 13 20 27 s 6 13 20 27
s 6 13 20 27 s 5 12 19 26	 M 7 14 21 28 M 6 13 20 27 	T 1 8 15 22 29 C T 7 14 21 28	July W 2 9 16 23 30 Detobe W 1 8 15 22 29	T 3 10 17 24 31 T 2 9 16 23 30	F 4 11 18 25 F 3 10 17 24 31	s 5 12 19 26 s 4 11 18 25	s 3 10 17 24 31 s 2 9 16 23	M 4 11 18 25 M 3 10 17 24	T 5 12 19 26 T 4 11 18 25	Augu W 6 13 20 27 Vemb W 5 12 19 26	rst T 7 14 21 28 28 rer T 6 13 20 27	F 1 8 15 22 29 F 7 14 21 28	 s 2 9 16 23 30 s 1 8 15 22 29 	s 7 14 21 28 s 7 14 21 28	 M 1 8 15 22 29 M 1 8 15 22 29 	Sep T 2 9 16 23 30 T 2 9 16 23 30	Detemb W 3 10 17 24 Decent W 3 10 17 24 3 10 17 24 3 10 17 24 31	ner T 4 11 18 25 25 bber T 4 11 18 25	F 5 12 19 26 F 5 12 19 26	s 6 13 20 27 s 6 13 20 27

Lily's birthday was exactly 3 weeks ago. Jamila's birthday is 6 days before Lily's birthday.

What is the date of Jamila's birthday?

21 Angelique buys 16 cans of lemonade for \$8.80

Find the cost of each can.

Give units with your answer.

[1]

22 Here are four digit cards.



Use each digit **once** to make the calculation correct.



23 Safia says,



24	The table shows	the cost in	dollars (\$)), per person, [·]	for a holiday.
----	-----------------	-------------	--------------	-----------------------------	----------------

	Ro	oom Only	F	ull Board
Hotel	5 nights	7 nights	5 nights	7 nights
Majestic	669	795	1429	1555
Excelsior	705	855	1445	1600
Palace	859	1025	1669	1799

(a) Mr and Mrs Wilson are going on a 5 night holiday. They are staying at the Palace hotel on a full board basis.

What is the total cost of their stay at the hotel?

\$ [1]

(b) Mrs Lo is going for a 7 night holiday to the Excelsior hotel.

How much more does she pay for full board than for room only?

\$ [1]

	Multiples of 4	Not multiples of 4
Multiples of 5		
Not multiples of 5	24	

Write these numbers in the correct box.

The first one has been done for you.



26 Here is a number line with two numbers marked with arrows.



What is the difference between the numbers?

.....[1]

27 The thermometers show the minimum and maximum temperatures in Oslo in one year.



Find the difference in the temperatures.

°C [1]

			A		
 -	-	 -	 	-	

17

The octagon is rotated 90° **clockwise** about point A.

Draw the octagon in its new position.

[1]

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29 Here is a triangle.



(a) Measure the largest angle.

° [1]

(b) Measure the longest side.

_____cm [1]

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