Cambridge IGCSE		-					Educ	ation ((9–1)		
CANDIDATE NAME											
CENTRE NUMBER											
MATHEMATIC	s									062	26/01
Paper 1 (Core	÷)						Oc	tober/	Nover	nber	2019
										1	hour
Candidates an	iswer on th	he Questio	on Paper.								
Additional Mate	erials:										
	IGCSE CANDIDATE NAME CENTRE NUMBER MATHEMATIC Paper 1 (Core Candidates an	CANDIDATE NAME	Cambridge IGCSE CANDIDATE NAME CENTRE NUMBER MATHEMATICS Paper 1 (Core) Candidates answer on the Question Additional Materials: Geomet	Cambridge International CANDIDATE NAME CENTRE NUMBER MATHEMATICS Paper 1 (Core) Candidates answer on the Question Paper. Additional Materials: Geometrical instru	Cambridge International General Cambridge International Genera	Cambridge International General Certificate CANDIDATE NAME CENTRE NUMBER MATHEMATICS Paper 1 (Core) Candidates answer on the Question Paper. Additional Materials: Geometrical instruments	IGCSE Cambridge international General Certificate of Secondary CANDIDATE	Cambridge International General Certificate of Secondary Educ CANDIDATE NAME CENTRE NUMBER CANDIDATE NUMBER CANDIDATE NUMBER MATHEMATICS Paper 1 (Core) Candidates answer on the Question Paper. Additional Materials: Geometrical instruments	Cambridge International General Certificate of Secondary Education (CANDIDATE NAME CENTRE NUMBER CANDIDATE NUMBER CANDIDATE NUMBER MATHEMATICS Paper 1 (Core) Candidates answer on the Question Paper. Additional Materials: Geometrical instruments	Cambridge International General Certificate of Secondary Education (9–1) CANDIDATE NAME CENTRE NUMBER CANDIDATE CANDIDAT	Cambridge International General Certificate of Secondary Education (9–1) CANDIDATE NAME CENTRE NUMBER MATHEMATICS Paper 1 (Core) Candidates answer on the Question Paper. Additional Materials: Geometrical instruments

READ THESE INSTRUCTIONS FIRST

Write your centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams and graphs.

Do not use staples, paper clips, glue or correction fluid.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

Electronic calculators should be used.

If working is required for any question it must be shown below that question.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place.

For π , use either your calculator value or 3.142.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question. The total of the marks for this paper is 60.

This syllabus is regulated for use in England as a Cambridge International Level 1/Level 2 (9-1) Certificate.

This document consists of 15 printed pages and 1 blank page.

1 Write down the value of the digit 3 in the number 723 502.

2 Jenna asks the members of a sports club how many whole hours they spend training each week. The results are shown below.

14	\mathcal{F}	9	17	18
5	19	20	21	.24
17	13	19	18	16
17	18	22	23	28

Jenna starts to draw a table of her results.

Complete Jenna's table.

Number of hours	Tally	Frequency
5 to 9		3
10 to 14	1	
15 to 19		
20 to 24		
25 to 29		

[2]

3 Write these values in order, smallest first.

74% $\sqrt{0.64}$ $\frac{3}{4}$ 0.085

4 The table shows some places and their heights above or below sea level.

Place	Height (m)				
Baku	-28				
Ben Nevis	1345				
Bombay Beach	-69				
Lake Eyre	-16				

(a) Which of these places has the lowest height?

......[1]

(b) Work out the difference between the heights of Ben Nevis and Baku.

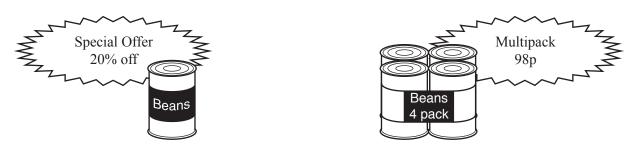
.....m [1]

(c) The height of Lake Assai is 139 metres lower than Lake Eyre.

Find the height of Lake Assai.

.....m [1]

5 A supermarket sells tins of beans as single tins or in a multipack of 4 tins.



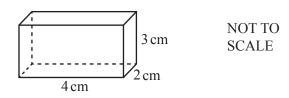
Before the special offer a single tin of beans cost 30p.

Jack wants to buy 4 tins of beans. He wants to pay as little as possible.

Should Jack buy the multipack or 4 single tins in the special offer? Show how you decide.

......[3]

6 The diagram shows a cuboid.

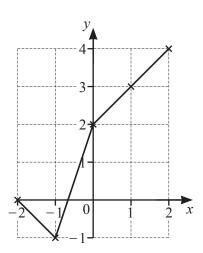


On the 1 cm square grid, complete an accurate net for this cuboid. One face has been drawn for you.

		 		,			 		

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7 Gita is trying to draw the graph of y = x+2 for values of x between -2 and 2. Here is her graph.



Gita's friend says:

I can tell from the shape of your graph that you have made a mistake.

8 Leon goes on holiday to the USA. When he comes home to the UK, he has \$340 of his holiday money left. He changes his dollars to pounds when the exchange rate is $\pounds 1 = \$1.25$.

How many pounds does Leon receive?

9 (a) Work out the value of 5^6 .

......[1]

(b) $5^n = 1$

Write down the value of *n*.

n = [1]

(c) Write $\frac{7 \times 7 \times 7 \times 7 \times 7 \times 7}{7}$ as a single power of 7.

.....[2]

- 8
- 10 Paolo rides his bicycle around a circular track. The radius of this track is 0.3 km. Paolo rides around the track 5 times.

Work out the total distance Paolo rides.

11 Calculate.

$$10.35 - \frac{9.76}{3.05 \times 2}$$

......[1]

10 8 × × 6 ж Age (years) 4 ж 2 0 5000 15000 10000 20000 n Price (£)

9

A dealer sells used caravans.

The scatter diagram shows the price and age of some of the caravans he sells. All the caravans sleep 6 people.

(a) There is a negative correlation between the price and the age of these caravans.

Explain how the scatter diagram shows this.

13 (a) Write down the co-ordinates of the point where the graph of y = 3x + 7 crosses the y-axis.

(.....) [1]

(b) Write down the gradient of the graph of y = 3x + 7.

(c) The graph of y = 3x + 7 crosses the graph of y = 4 at the point *P*. Find the co-ordinates of *P*.

(.....) [2]

14 (a) Solve.

$$5x - 2 = 7 - x$$

(b) Solve.

$$\frac{16+x}{7} = 3$$

15 Change 5 m^3 into cm^3 .

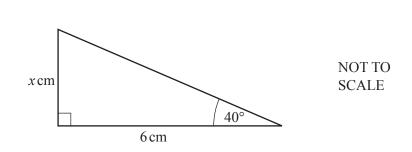
......cm³ [1]

16 Find the highest common factor (HCF) of 315 and 225.

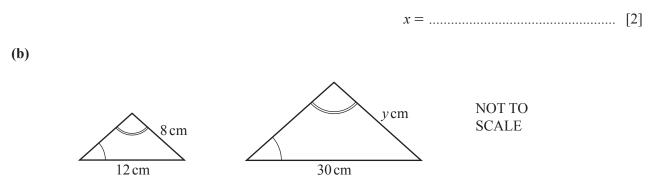
11

A bus travels at a constant speed of 90 kilometres per hour.Calculate the distance the bus travels in 22 seconds.

18 (a)



Find the value of *x*.



The diagram shows two mathematically similar triangles.

Find the value of *y*.

y = [2]

19 Simplify.

$$\frac{8x^7y^6}{4x^2}$$

......[2]

20 Adele and Pierre both walked their family dog on 1 January. After that, Adele walks the dog every 8th day and Pierre walks the dog every 12th day.

After 1 January, how many times do Adele and Pierre both walk the dog on the same day during this year (365 days)?

13

......[3]

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14

21 (a) Here are the first four terms of a sequence.

2 9 16 23

Find the *n*th term of this sequence.

(b) Here are the first four terms of a different sequence.

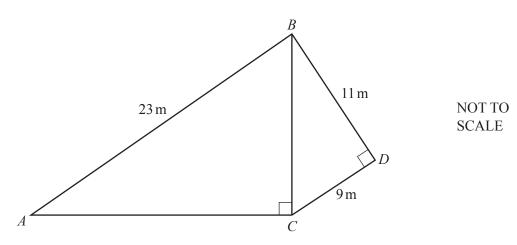
1 8 27 64

(i) Find the next term of this sequence.

(ii) 42875 is a term in this sequence.

Work out the term number of 42875.

22 The diagram shows two right-angled triangles, *ABC* and *BCD*.



Show that AC is 18.1 m correct to 1 decimal place.

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