

Cambridge Assessment

Cambridge IGCSE[™]

	CANDIDATE NAME						
	CENTRE NUMBER		CANDIDATE NUMBER				
* 	CAMBRIDGE	INTERNATIONAL MATHEMATICS		0607/12			
	Paper 1 Non-ca	lculator (Core)		February/March 2025			
4				1 hour 15 minutes			
* 1 3 7 2 4 8 6 6 5 4	You must answe	er on the question paper.					

You will need: Geometrical instruments

INSTRUCTIONS

- Answer all questions. •
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs. •
- Write your name, centre number and candidate number in the boxes at the top of the page. •
- Write your answer to each question in the space provided.
- Do not use an erasable pen or correction fluid. •
- Do not write on any bar codes. •
- Calculators must not be used in this paper. •
- You may use tracing paper. •
- You must show all necessary working clearly. You will be given marks for correct methods even if your answer is incorrect.

INFORMATION

- The total mark for this paper is 60.
- The number of marks for each question or part question is shown in brackets [].



2

Area, A , of triangle, base b , height h .	$A = \frac{1}{2}bh$
Area, A , of circle of radius r .	$A = \pi r^2$
Circumference, C , of circle of radius r .	$C = 2\pi r$
Curved surface area, A , of cylinder of radius r , height h .	$A=2\pi rh$
Curved surface area, A , of cone of radius r , sloping edge l .	$A = \pi r l$
Surface area, A , of sphere of radius r .	$A = 4\pi r^2$
Volume, V , of prism, cross-sectional area A , length l .	V = Al
Volume, V , of pyramid, base area A , height h .	$V = \frac{1}{3}Ah$
Volume, V , of cylinder of radius r , height h .	$V = \pi r^2 h$
Volume, V , of cone of radius r , height h .	$V = \frac{1}{3}\pi r^2 h$
Volume, V , of sphere of radius r .	$V = \frac{4}{3}\pi r^3$

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0607/12/F/M/25

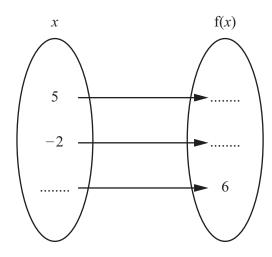
	* 000080000003 *	3			_
-	Calculators must	not be u	sed in th	is paper.	
1	This is a list of numbers.				
	33 34 35	36	37	38	39
	From this list, write down				
	(a) an odd number				
					[1]
	(b) the square number			•••••	[1]
	(c) the multiple of 7				F11
	(d) the prime purpher			•••••	[1]
	(d) the prime number.			•••••	[1]
2	Write 638.253				
_	(a) correct to 2 decimal places				
				••••	[1]
	(b) correct to 4 significant figures				
				•••••	[1]
	(c) correct to the nearest 10.				
				•••••	[1]
3	Work out.				
	(a) $5+3\times 4-2$				
	2 1				
	(b) $\frac{3}{4} - \frac{1}{3}$				
				••••	[2]

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[Turn over



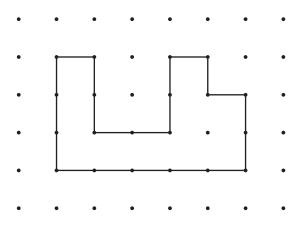
Complete the mapping diagram for f(x) = 2(x+3). 4



4



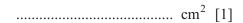
5



The shape is drawn on a 1 cm^2 grid.

- (a) Find the perimeter of the shape.
- (b) Find the area of the shape.

..... cm [1]



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* 000080000005 *



6 Find the value of $\sqrt[3]{125} + 2^3$.

7 This is Haruna's school timetable for Monday.

	Monday				
0800 to 0900	English				
0900 to 0945	History				
0945 to 1000	Break Time				
1000 to 1100	Mathematics				
11 00 to 12 00	Science				
1200 to 1300	Lunch Time				
13 00 to 14 00	Art				
1400 to 1500	Art				

5

(a) Complete the statement.

The length of Haruna's Break Time is minutes.

[1]

(b) Work out how much longer Haruna is in Art than in History.

..... h min [2]

8 The price of a bicycle is \$600. This price is reduced by 15% in a sale.

Work out the sale price of the bicycle.

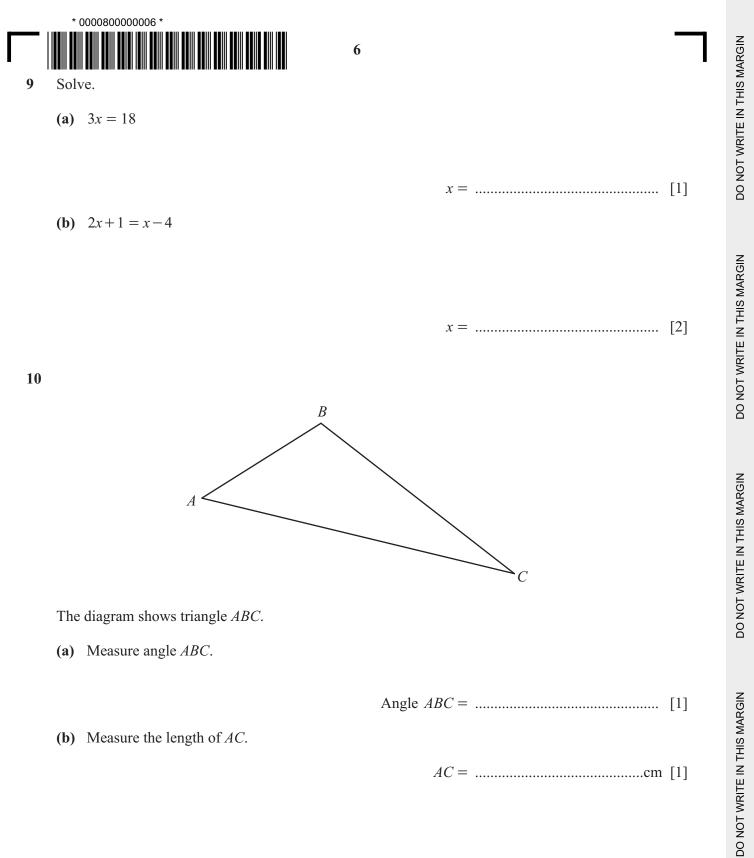
\$[2]

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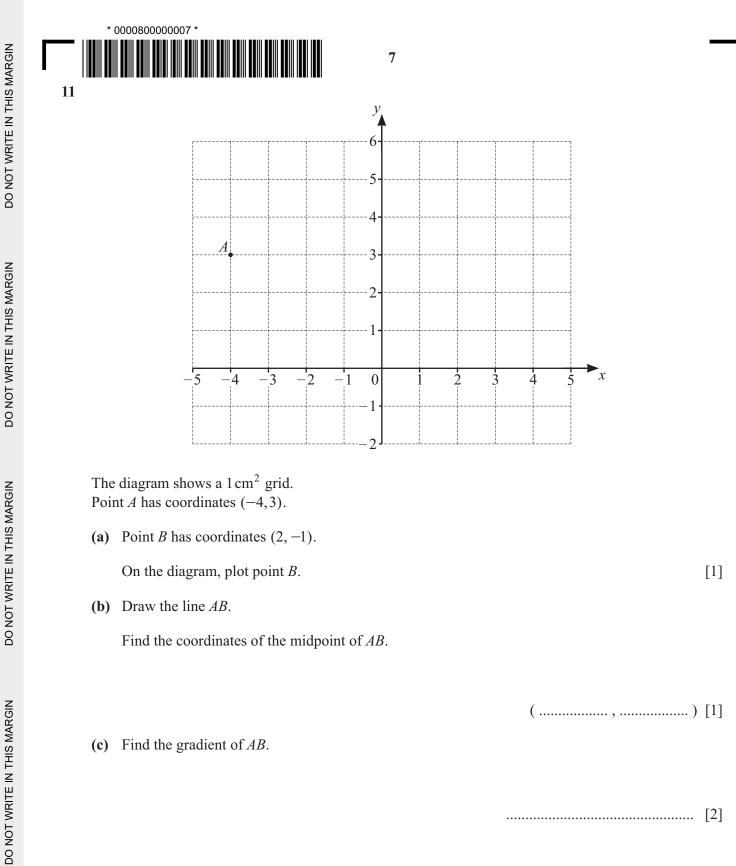
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(b) Measure the length of AC.

AC = [1]





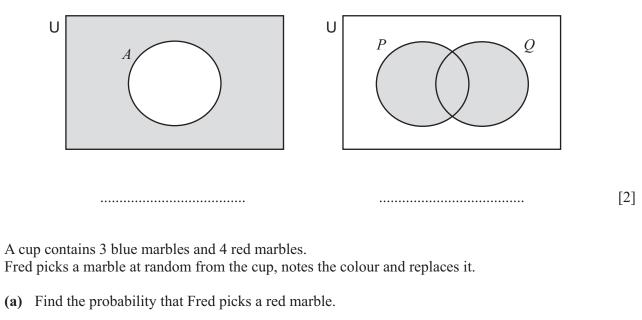
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12			080000		t 4 ter	rms of	a sec	uence.		8							٦	DO NOT WRITE IN THIS MARGIN
							10		88		75	62						TE IN TH
	(a)	W	/rite d	lown t	the ru	ile for	conti	nuing t	he seq	luence	e.							OT WRIT
													 		 •••••	••••	[1]	DO NG
	(b)	F	ind th	e next	t 2 te	rms of	the s	equenc	e.									
	(c)	F	ind th	e <i>n</i> th 1	term	of this	s sequ	ience.					 	. and .	 		[2]	DO NOT WRITE IN THIS MARGIN
13	Fac	tor	ise 8	$4x^2 - 3$	36x.								 		 		[2]	DO NOT WRITE IN THIS MARGIN
													 		 	••••	[2]	
14	Shc)W 1	that	3 ⁻³ ×	18 =	$\frac{2}{3}$.												DO NOT WRITE IN THIS MARGIN
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15 Use set notation to describe each shaded region.

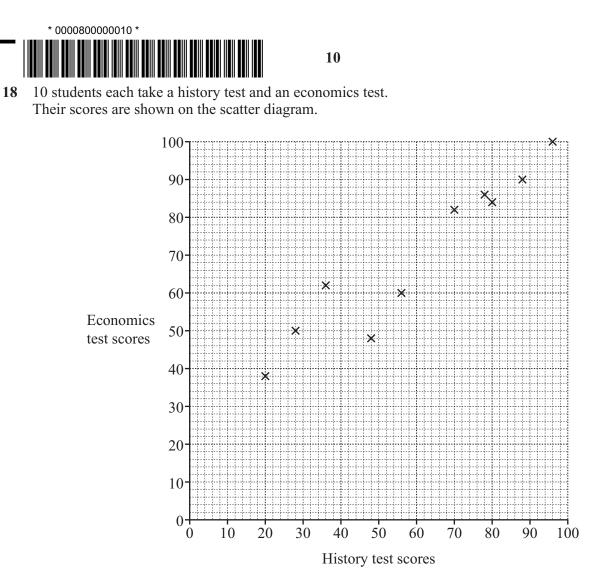


- (b) Fred repeats this 140 times. [1]
 - Find the expected number of times that Fred picks a red marble.
- 17 Line *L* is parallel to the line with equation y = 3x 7. Line *L* passes through the point (2, 5).

Find the equation of line *L*.

y = [3]

16



The mean score for history is 60. The mean score for economics is 70.

- (a) On the diagram, draw a line of best fit.
- (b) Terry scores 64 on the history test.

Use your line of best fit to find an estimate for his score on the economics test.

[2]

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11

19 (a) $7^x \times 7^3 = 7^6$

Find the value of *x*.

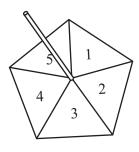
(b)
$$\frac{8^{12}}{8^{y}} = 8^4$$

Find the value of *y*.

y = [1]

 $x = \dots [1]$

20 The diagram shows a 5-sided spinner.



Gigu spins the spinner 200 times.

Gigu records the number that the spinner lands on each time. The results are shown in the table.

Number	1	2	3	4	5
Frequency	36	33	60	41	30

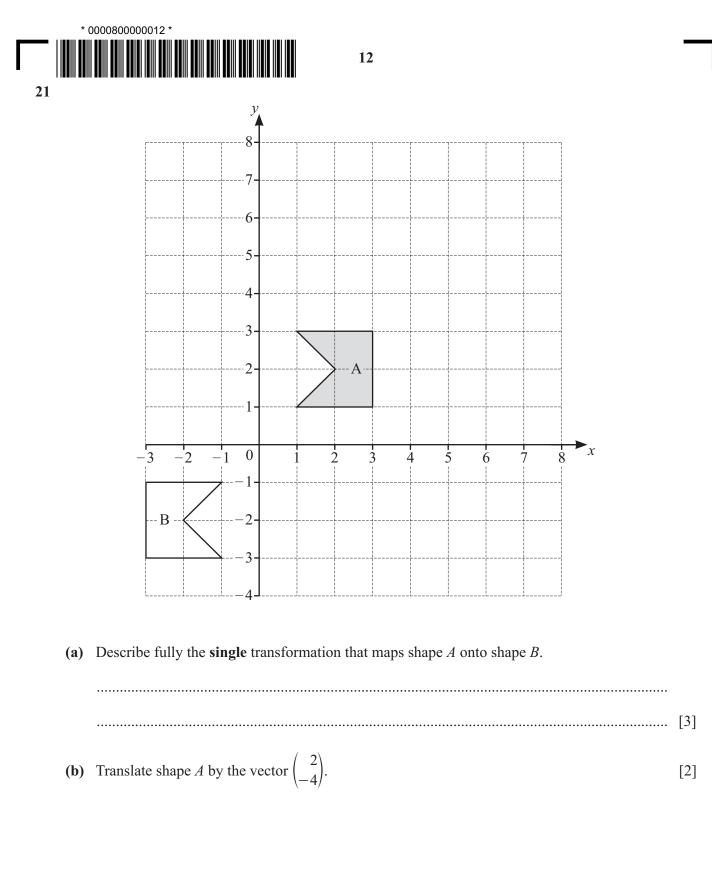
(a) Find the relative frequency that the spinner lands on 4.

......[1]

(b) Find an estimate of the probability that the spinner lands on a number less than 3.

Question 21 is printed on the next page.





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