CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

General Certificate of Education Examination / Technical and Vocational Education Examination

0570 MATHEMATICS 1

JUNE 2020

Centre Number	no altrop Si
Centre Name	000.
Candidate Identification N	0. 000,00
Candidate Name	

ORDINARY / INTERMEDIATE LEVELS

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Mobile phones are NOT allowed in the examination room.

MULTIPLE CHOICE QUESTION PAPER

dimension \mathbf{O} and \mathbf{A} and

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you start answering the questions in this paper. Make sure you have a soft HB pencil and an eraser for this examination.

1. USE A SOFT HB PENCIL THROUGHOUT THE EXAMINATION.

2. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

- Before the examination begins:
- 3. Check that this question booklet is headed "Ordinary / Intermediate Levels 0570 Mathematics 1"
- 4. Fill in the information required in the spaces above.
- 5. Fill in the information required in the spaces provided on the answer sheet using your HB pencil: Candidate Name, Exam Session, Subject Code and Candidate Identification Number. Take care that you do not crease or fold the answer sheet or make any marks on it other than those asked for in these instructions.

How to answer the questions in this examination

- 6. Answer ALL the 50 questions in this Examination. All questions carry equal marks.
- 7. Calculators are allowed.
- 8. Each question has FOUR suggested answers: **A**, **B**, **C** and **D**. Decide which answer is appropriate. Find the number of the question on the Answer Sheet and draw a horizontal line across the letter to join the square brackets for the answer you have chosen.

For example, if C is your correct answer, mark C as shown below:

[A] [B] [G] [D]

- 9. Mark only one answer for each question. If you mark more than one answer, you will score a zero for that question. If you change your mind about an answer, erase the first mark carefully, then mark your new answer.
- 10. Avoid spending too much time on any one question. If you find a question difficult, move on to the next question. You can come back to this question later.
- 11. Do all rough work in this booklet using the blank spaces in the question booklet.
- 12. At the end of the examination, the invigilator shall collect the answer sheet first and then the question booklet. DO NO ATTEMPT TO LEAVE THE EXAMINATION HALL WITH IT.

Turn Over

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1.	Simp A B	1.826 18.26	8.	Give boys A	n that 5/8 of the children in a school are , the ratio of boys to girls is 3:8	
	С	1.926		В	5:3	
	D	10.26		C	5:8	
	D	19.20		D	8:3	
2.	The A	value of 4 in 2.045 is 0.04	9.	The map	distance between two points A and B on a is 7cm. Given that AB=21km on the	
	R	0.4		grou	nd, the scale on the map is:	
	D	0.4		A	1:3	
	C	0.004		Б С	1.30.000	
	D	40		D	1:300,000	
3	Give	n that $-3 \leq x$ then the symbol $\leq x$				
5.	A	Strictly less than $S \leq x$, then the symbol \leq means	10.	An in	if inite set in the following is:	
	В	Less than	n Maria II	A	$\{1,3,5,7\}$	
	С	Equal to	•	C	$\{2, 4, 0, 0\}$	
	D	less than or equal to		D	{1,2,3,,10}	
	F 1	. 14 7 .				
4.	Evalu	49 $\frac{49}{2}$	11 1. - P	Give subse	n the set $B = \{1,2,3\}$, the number of ets of B is: 2^4	
	Α	3		B	23	
	В	8		С	2 ²	
		7		D	2 ¹	
	С	8	10	0.	advictor to 10x / 10x	
	D	$\frac{\overline{3}}{4}$	Then~	$p\Lambda q$ is	q: He is fat.	
-				Α	He is tall and fat	
5.	Ther	number 0.000345 in standard form is		В	He is short and fat	
	A	34.5× 10 ⁵ marked a formula and the latter b		С	He is tall and thin	
	B:	3.45×10^{-4}		D	He is short and thin	
	С	3.45×10^{4}	13	In the	truth table in Group 1 V	
	D	3.45×10^{-3}	SVI	symbolically is:		
	_	n dele se des reces	-) -			
6	The	number 500 737 given to three significant	Α.	$p \lor q$		
0.	figure	es is:	Β.	$p \land q$	TFT	
	Ă	500,000	C.	$p \Rightarrow c$	F T T	
	В	501	D.	$p \Leftrightarrow$	q F F F	
	С	501,000			Figure 1	
	D	500,700		~ .		
7			04.	Giver	that $f(x) = x^2 - 5x - 6$, then $f(2) =$	
7.	A coi Work	ing at the same rate the number of words		А	20	
	that c	and be printed in 7 minutes is		В	12	
		F		С	0	
	Α	2520		D	-12	
	В	1275				
	C	1440			anali Unite la	
	U	120				

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23. In figure 7, the value of y is	29. In the expression of $2x(5-3x)$ the coefficien
A 105°	of of x is 10
	B 4
B 75°	C -6
$C = 60^{\circ}$	D 16
on Doch 45° linner over a source is story f	$20 \qquad \text{Given thety} = 4 \approx -0.41 = 1 = 0$
to study of the kinetion of the kinetic of	50. Orven that $x = -4$, $y = 9$, the value of $y - x^2$ is
b b) sitano e al si inde a soliti istiana nu	y x to
$\langle \rangle$	A 17
	B 13
100 Carl	
Figure 7	
	31. Given the expressions $2xy$ and $6x^2y$, the
4. Given that the circumference of a circle is 132 cm and taking $\pi = 22/7$ it $\pi = 11$	common factor is:
A 21cm	D states
$B^{(1)} = \frac{1}{8} + \frac{1}{49 \text{ cm}} + \frac{1}{10} + \frac{1}{2000} + \frac{1}{10} + $	$\begin{array}{c} A 2y^2 \\ B 2w^2 \end{array}$
C 14cm	$\frac{2}{C} = \frac{2}{2} \frac{1}{rv}$
D 7cm	$D = 2x^2y$
5. A solid cuboid of length 10cm has a course	
cross section of side 8cm. The volume is	32. Given that $V = \pi r^2 l$, expressing r in terms
A 640cm ²	of V, π and l gives
$B = 100 \text{ cm}^3$	A. $\frac{\nabla V}{\pi l}$ B. $\sqrt{\frac{V}{\pi l}}$ C. $\left(\frac{V}{\pi l}\right)^2$ D. $\frac{V}{2\pi l}$
D 640cm ³ offee situal O a suggit at 22	12
Commenced in all a MOR algery static addition	
6. The point $P(3, -2)$ in the Cartesian plane	33. The interval represented on the number line is
x - y is found in the	<€>
P Third quadrant	2 8
C Second quadrant	A (2,8)
D First quadrant	C [2.8]
The of	D]2,8]
7. The coordinates of the midpoint of the line segment joining the points $A(5, 6)$ and $B(1, 4)$	
are	34. The solution of the inequality $3 - 5x \ge 18$ is
	Arra
A A(1,2)	$\begin{array}{c} A \\ B \\ x > -3 \end{array}$
$ \begin{array}{c} B \\ C \\ \end{array} A(2,1) \\ C \\ \end{array} $	
D = A(4,2)	$x \leq x \leq x \leq x \leq x \leq x$
L 11(-2,-1)	$D x \leq 3$
8. Given the equations of the straight lines	35. Figure 8, is a network. The number of arcs is
x + y = 4 and $y = 1 + x$. The coordinates of the point of interval	
ILLE DOIDT OF INTErsection are	A. 3
the point of intersection are.	B4 / \
A (1,2)	
A $(1,2)$ B $(1^1,2)$	C. 5
A (1,2) B (1^{1}_{2} ,2)	C. 5 D. 2
A (1,2) B ($1\frac{1}{2}$,2) C ($1\frac{1}{2}$,2 $\frac{1}{2}$)	C. 5 D. 2 Figure 8

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A Mutually exclusive			
	1		
Given the events <i>E</i> and <i>F</i> such that $P(E \cap F) = P(E)P(F)$, then the events <i>E</i> and <i>F</i> are			
$\begin{array}{c} \mathbf{D} & \mathbf{z} \\ \mathbf{D} & \mathbf{z} \\ \mathbf{z} \\ \mathbf{z} \\ \mathbf{z} \\ \mathbf{z} \end{array} $	e angle (1), pression of Z	final Z in be 50 , 41 for X is	
$\frac{1}{2} \begin{pmatrix} 0 & 0 \\ \varepsilon & \mu \end{pmatrix}$	angle of duvidon of N	Figure 11, shows the	
$B = \frac{3}{10} - M \text{ mod} \left(\begin{pmatrix} s \\ I \end{pmatrix} \right) = M$	01 eng 14		
44. Given the matrice $M = \frac{\mathbf{E}}{\mathbf{E}} \begin{bmatrix} 3 & 4 \\ -2 \end{bmatrix} \mathbf{A}$	0/a	\overline{PR}	
probability of selecting a prime number from S is		PQ R0	
Given the set $S = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$, the		<u>19</u>	
C ^{-75th percentile D 100th percentile}	A		
A 25 th percentile B 50 th percentile			
The lower quartile of a cumulative frequency curve is at the		Given that the tran angled at R. sam a i	
B. 4 C. 5 D. 10			
4 1 2 3 o number of classes in the above frequency		1107 F8 - U	
1-5 6-10 11-15 (16-20 21-25			
D 5			
A 1 B 2 C 3	, and the second s		
The mode of the scores 3, 2, 6,5,1,4, 2, 3,6, 3, 2, 2, 7, 4, 2 is	analed mismale. The value		
D (-9, -4)		(2	
$\begin{array}{c} B \\ C \\$			
A (-3.0)			
	the matrix (6, 2) is $(-3, -2)$. The matrix (x, y) is A $(-3, 0)$ B $(-9, 0)$ C $(-3, -4)$ D $(-9, -4)$ The mode of the scores 3, 2, 6,5,1,4, 2, 3,6, 3, 2, 2, 7, 4, 2 is A 1 B 2 C 3 D 5 1-5 $6-10$ $11-15$ $16-20$ $21-254$ 1 2 3 $0number of classes in the above frequencyibution is3 B. 4 C. 5 D. 10The lower quartile of a cumulative frequencycurve is at theA 25th percentileB 50th percentileC 75th percentileD 100th percentileGiven the set S = \{1,2,3,4,5,6,7,8,9,10\}, theprobability of selecting a prime number from SisA \frac{3}{5}D \frac{2}{5}Given the events E and F such thatP(E \cap F) = P(E)P(F), then the eventsE and F are$	the matrix (6, 2) is (-3, -2). The matrix (7, y) is A (-3, 0) B (-9, 0) C (-3, -4) D (-9, -4) The mode of the scores 3, 2, 6, 5, 1, 4, 2, 3, 6, 3, 2, 2, 7, 4, 2 is A 1 B 2 C 3 D 5 $\frac{1-5}{4} \frac{6-10}{11-15} \frac{16-20}{21-25} \frac{21-25}{0}$ number of classes in the above frequency ibution is 3 B. 4 C. 5 D. 10 The lower quartile of a cumulative frequency curve is at the A 25 th percentile B 50 th percentile C 75 th percentile D 100 th percentile Given the set $S = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$, the probability of selecting a prime number from S is A $\frac{3}{5}$ Given the events E and F such that $P(E \cap F) = P(E)P(F)$, then the events E and F are	the matrix (6, 2) is $(-3, -2)$. The matrix (x, y) is A (-3, 0) B (-9, 0) C (-3, -4) D (-9, -4) The mode of the scores 3, 2, 6, 5, 1, 4, 2, 3, 6, 3, 2, 2, 7, 4, 2 is A 1 B 2 C 3 C 3 L $\frac{1-5}{4}$ $\frac{1}{12}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{0}$ number of classes in the above frequency ibution is 3 B. 4 C. 5 D. 10 The lower quartile of a cumulative frequency curve is at the A 25 th percentile D 100 th percentile D 100 th percentile Given the set $S = \{1,2,3,4,5,6,7,8,9,10\}$, the probability of selecting a prime number from S is A $\frac{3}{5}$ $\frac{1}{10}$ $\frac{1}{2}$ $\frac{1}{2$

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