CANDIDATE'S FULL NAMES  CANDIDATE IDENTIFICATION NUMBER  SUBJECT CODE PAPER NUMBER  0570  CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD  ORDINARY LEVEL EXAMINATION  SUBJECT TITLE MATHEMATICS  SUBJECT CODE PAPER NUMBER  MATHEMATICS  O570  EXAMINATION DATE: JUNE 2020  Two and a Half hours  Enter the information required in the boxes above.  This paper is arranged in two sections, A and B.  Section A: Answer ALL questions in Sections A and B.  Section B: All questions in Sections in dicated.  Section B: All questions in Section B carry equal barks.  You are reminded of the necessity for good English and orderly presentation in your answers. In calculations, you are advised to show all the steps in your working, giving your answer at each stage.  Calculators are allowed  FOR EXAMINERS' USE ONLY  Aarked by:  "Beature:  Date  Date  Turn O  FOR EXAMINERS' USE ONLY  SCORE	REGISTRATION CENTRE NUMBER			
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	SECTION A

## ANSWER ALL 15 QUESTIONS IN THIS SECTION

1. Simplify 
$$\frac{2}{3} + \frac{3}{4} \div \frac{6}{7} - \frac{11}{12}$$

(4 marks)

- 2. Given the sets  $A = \{0 \le x < 4, x \in \mathbb{Z}\}$  and  $B = \{-1 \le x < 2, x \in \mathbb{Z}\}$ , list
  - (a) The elements of the set A

(b) The elements of the set B

(c) Draw a Venn diagram to represent the sets.

(7 marks)

3. (a) Complete the logic table in figure

p	q	~q	P□ ~q
T	T		
T	F		
F	T		1 1
F	F		

Figure 1

(5 marks)

2020/0570/2/A/Q

(a) Solve the inequality $-7 < 5x - 2 \le 3$	
	***************************************
(b) Represent the solution of (a) on a real number line.	
M. Samulhanaparkithanananan	
	(6 mark
The functions g and h are defined on R, the set of real number as follows	
$g: x \mapsto x^2 + 2$ and $h: x \mapsto x + 2$ , find	
(a) g(2)	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(b) $h^{-1}(x)$	
	and the second second
	E E
•••••••••••••••••••••••••••••••••••••••	······································
(1) is cetangle with AC= 20m and AB= 14m. Find the area of the shaded	In Grure 2. AAB is a semi-circle. AAS
1) is returned with AC = 20m and AB = 14m. Find the area of the shaded $(x)gh$ (c)	In figure 2. AkB is a semi-circle. AK
1) is rectangle with $\Delta C \approx 20 \text{m}$ and $\Delta B = 14 \text{m}$ . Find the area of the shaded $(x) gh$ (c)	
1) is rectangle with AC= 26m and AB= 14m, Find the area of the shaded $(x)gh$ (c)	
D is returned with AC = $20m$ and AB = $14m$ . Find the area of the shaded $(x)gh$ (3)	
1) is rectangle with $AC \approx 20 \text{m}$ and $AB = 14 \text{m}$ . Find the area of the shaded $(x)gh$ (c)	
1) is rectangle with $AC \approx 20 \text{m}$ and $AB = 14 \text{m}$ . Find the area of the shaded $(x)gh$ (2)	al division i vision in section in the section in t
(c) $hg(x)$	remitegion.
(c) $hg(x)$ Given y varies directly as x and that $y = 10$ when $x = \frac{1}{3}$ ,	al the can't be a soight and the first section of the section of t
(c) $hg(x)$ Given y varies directly as x and that $y = 10$ when $x = \frac{1}{3}$ ,  (a) Find the relation between x and y. $\frac{1}{3}$ $\frac{1}$	The sen of the first at term of a sequen
(c) $hg(x)$ Given y varies directly as x and that $y = 10$ when $x = \frac{1}{3}$ ,  (a) Find the relation between x and y. $y = 10$ when $y = 10$ may be a vector of the second sec	The sum of the first at term of a sequencial transmit in the contract of the first at term of a sequencial transmit in the contract of the con
(c) $hg(x)$ Given y varies directly as x and that $y = 10$ when $x = \frac{1}{3}$ ,  (a) Find the relation between x and y. $y = x = x = x = x = x = x = x = x = x = $	The sum of the first at term of a sequencial transmit in the contract of the first at term of a sequencial transmit in the contract of the con
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(c) $hg(x)$ Given y varies directly as x and that $y = 10$ when $x = \frac{1}{3}$ ,  (a) Find the relation between x and y. $y = x = x = x = x = x = x = x = x = x = $	The sum of the first at term of a sequencial transmit in the contract of the first at term of a sequencial transmit in the contract of the con
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(c) $hg(x)$ Given y varies directly as x and that $y = 10$ when $x = \frac{1}{3}$ ,  (a) Find the relation between x and y. $h(x) = \frac{1}{3}$ and $h(x) = \frac{1}{3$	The sum of the first at term of a sequence (a) is an discontinuous disco
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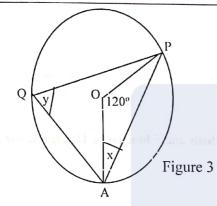
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n }				•••••	
			••••••		
			and that $j=10$ who	varies directly as N	(6 ma
	A  B  Figure  In figure 2, AEB is a s region.	A  B  Figure 2  In figure 2, AEB is a semi-circle. ABCD is region.	A  A  B  Figure 2  In figure 2, AEB is a semi-circle. ABCD is rectangle with AC= region.	A  C  Figure 2  In figure 2, AEB is a semi-circle. ABCD is rectangle with AC= 20m and AB= 14m, 1 region.	Figure 2 In figure 2, AEB is a semi-circle. ABCD is rectangle with AC= 20m and AB= 14m, Find the area of the region.

- 10. Given the matrices  $A = \begin{pmatrix} 5 & 2 \\ 3 & -1 \end{pmatrix}$  and  $B = \begin{pmatrix} -3 & 0 \\ 1 & 4 \end{pmatrix}$ ,
  - (a) State the transpose of the matrix A

(b) Find the matrix A-B

(5 marks)

11.



In figure 3 APQ is a circum-circle. The chord AP subtends an angle of 120° at the centre, O, of the circle. Calculate the values of the angles

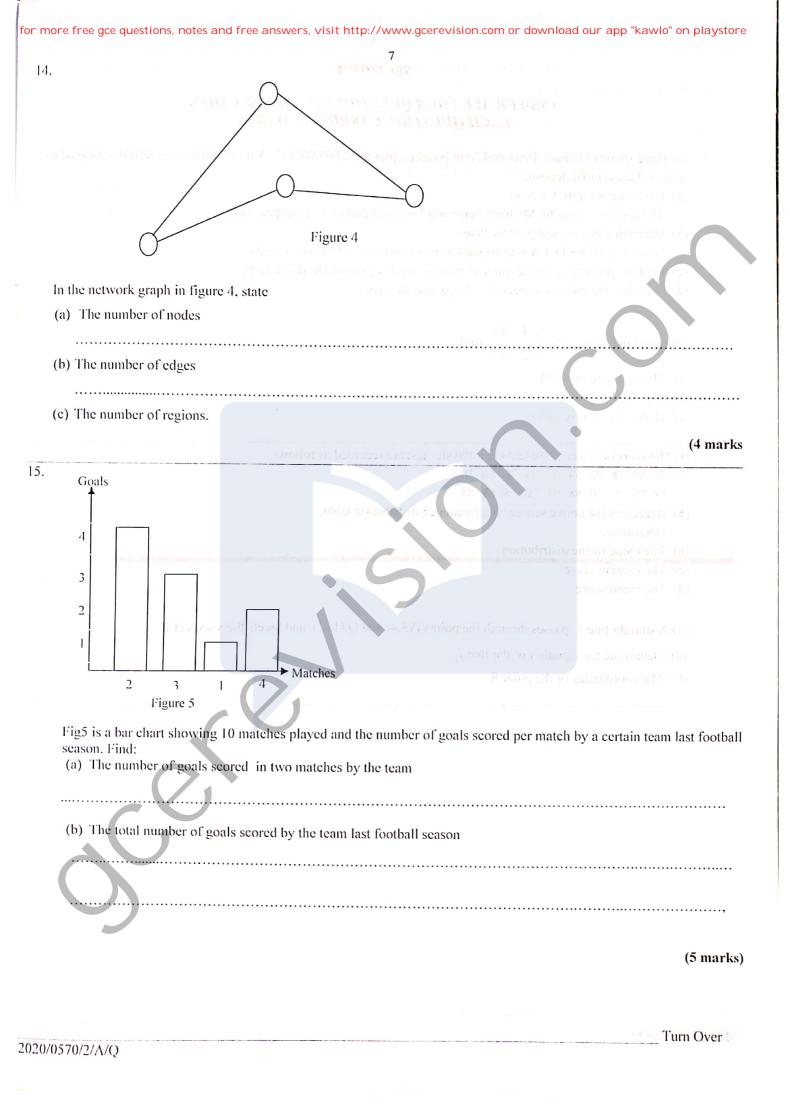
(a) x

States Cr.Z. 191

(b) y

(5 marks)

12.	The coordinates of the points A,B,C line, find	C are (1,3), (2,y), and (4, 6) respectively. Given that A, B and C are on a straig
		(recent the materiors A ( 3 -1 ) and Br ( 1 4 )
	(a) the value of y	( ) 4 / ( ) 4 / ( ) 4 / ( ) 5 min spoke of the margina A
		(9) State on translation of the translation and state (9)
	(b) the lengths of the line segment	ts AB, leaving your answer in surd form.
edino	<del>8-1</del>	
	(c) The ratio AB: BC	
		(6)
13.	A ball is drawn at random from a ball it is	pox containing 6red balls, 4 white balls and 5 blue balls. Determine the prob
	(a) A white ball	N Figures
561 5	t the centre. O. of the circle. Letterlat	figure 3 APO is a circum-circle. The chord AP-subronds an weele of 140° at
		Aligno autitic
	(b) Not a red ball	
	(b) Not a red ball	
		,
rotrar	(c) A red or white ball	
	The specific to the second of	
	(a) 1 mm (a) 1 mm (a) 1 mm	
		(6 n



## SECTION B

## ANSWER ALL FOUR QUESTIONS IN THIS SECTION. EACH QUESTION CARRIES 15 MARKS

- 1. (i) Three friends Michael, Peter and John bought a plot for 2,800,000FCFA from a man who agreed to be paid 65% of its value as initial deposit.
  - (a) Calculate the initial deposit

    The deposit is paid by Michael, Peter and John in the ratio 5:3:2 respectively.
  - (b) Determine the amount paid by Peter
    Given that 91000FCFA is to be paid as processing fee for the documents
  - (c) Find the percentage of the initial deposit needed to process the documents
  - (d) Calculate the balance expected to be paid to the man.
  - (ii) Given the matrix  $M = \begin{pmatrix} 4 & 5 \\ 2 & 3 \end{pmatrix}$ , find
  - (a) The determinant of M
  - (b) The adjugate of M
  - (c) Hence the inverse of M
- 2. (i) The scores of twenty students in a Physics test are recorded as follows

70 80 78 98 84 67 98 70 80 100 87 83 70 70 88 91 70 78 88 88

- (a) Represent the above scores on a frequency distribution table Determine,
- (b) The mode of the distribution
- (c) The median score
- (d) The mean score
- (ii) A straight line  $l_1$  passes through the points P(3,4) and Q (1,-2), and meets the y-axis at R.
- (a) Determine the equation of the line  $l_1$ .
- (b) The coordinates of the point R.

- 3. Given the coordinates of the vertices of triangle, ABC as A(1,4), B(1,1) and C(3,1),
  - (a) Find the coordinates of the vertices of the triangle A'B'C' obtained by rotating triangle ABC through 90°, anticlockwise, about the origin.
  - (b) On a graph paper taking 1cm to represent 1 unit on both axis for values  $-4 \le x \le 7$  and  $-2 \le y \le 10$ , plot triangle, ABC and A'B'C'.

Triangle A'B'C' is mapped onto triangle A'B''C' by a reflection on the mirror line x + y = 6

- (c) Draw the line x + y = 6.
- (d) Reflect A'B'C' on the line x + y = 6.
- (e) Determine the coordinates of triangle A"B"C"
- 4. (i) Given the function  $f(x) = 5 + 3x x^2$ .

Taking values of x for -2 to +5 and using a scale of 1cm to represent 1 unit on both axis,

(a) Draw the graph of f(x)

Using your graph,

- (b) Determine the value of x for which  $5+3x-x^2=0$ .
- (c) Find the gradient of the curve at the point it cuts the y-axis
- (ii) P and Q have position vectors 3i + 2j and -i + 2j respectively.  $\mathbf{OP} = 3\mathbf{OQ} + 2\mathbf{OR}$ , find
  - (a) 2OR in terms of i and i
  - (b) The position vector of R

