440/2/2025 VE I/L

SOUTH WEST REGIONAL MOCK EXAMINATION TECHNICAL AND VOCATIONAL EDUCATION

THE TEACHERS' RESOURCE UNIT (TRU)

IN COLLABORATION WITH

THE REGIONAL INSPECTORATE OF PEDAGOGY FOR SCIENCE

AND

THE SOUTH WEST ASSOCIATION OF MATHEMATICS TEACHERS (SWAMT)

TUESDAY 28/03/2025: AFTERNOON

TVE - INTERMEDIATE LEVEL

Subject Title	MATHEMATICS	
Paper Number	Paper 2	3ª interest
Subject Code Number	5440	hand a strange for

Two and a half hours

INSTRUCTIONS TO CANDIDATES:

- This paper is arranged in two sections A and B.
- SECTION A is for all candidates to answer all questions in the spaces provided.
- SECTION B is made of 6 questions for candidates to answer any 4 of their choice. All questions in this section carry equal marks.

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.

©TRU/RPI-Sc/5440/MATHS/2/MOCK 2025

1/7

	······	
2. A form 5	student went to the market and bought the following items:	2
> 9	cups of garri where 6 cups are sold for 500 FCFA	
> 8	cups of groundnut at the cost of 200 FCFA per cup.	
P 3	$\frac{1}{2}$ liters of palm oil at the cost of 800 FCFA per liter.	
× 5	packs of spaggetti at the cost of 250 FCFA per pack.	0
a) How	much that she spent on garri.	1.
		2.
b) The to	tal amount of money that she spent in the market.	
	ATAIN AND AND AND AND AND AND AND AND AND AN	
	······	5'
(If she left the house with the sum of 10 500 ECEA	······································
c) Calcul	late her balance after buying all the items.	
3 Simplify th	he following, leaving your answer in standard form.	
0.12	5x042	
	A	4 marks
		Sev Lagar
1. 1 38 A 40 (1)	3x - y = -5	
4. Solve in B	I', the summaneous equation (31 + 2y - 20	**************************************
.,,,,,,,,,,	***************************************	

		A superior and a supe

for more past questions and solutions download kawlo kawlo app or visit http://www.gcerevision.com

	The set of	I DE LA DELLA DE LA DELLA DE LA DELLA D	The second se	1	
IORA DOCT ALLACTIONS ON	a collitione downic	DOM KOMIN KOM	in ann ar vieil	· http://\\/\//////	acaravieian com
	\mathbf{x} solutions downit	Jau nawiu naw			

11	Б	\backslash				
						n an least a
			and the second sec			
	a					
Given that N	I is the midpoint	of the diagram abo	ove. Calculate			~
a) 7 Q						
		•••••••				
b) <u>OM</u>					C.V	
6. The floor of	a sitting room mea	sures 5.40m by 4.	20m			
a) Calculate	the area of the sit	ting room.	+	.0		
••••	••••••		+ 6		•••••••	2 marks
	••••••••••••••••••••••••					
b) If tiles of	dimension 60cm	by 60cm are to be	placed on the	entire floor.	calculate the	number of tiles that
b) If tiles of will be us	dimension 60cm l sed.	by 60cm are to be	placed on the	entire floor, o	calculate the	number of tiles that
b) If tiles of will be us	dimension 60cm l sed.	by 60cm are to be	placed on the	entire floor, o	calculate the i	A marks
b) If tiles of will be us	dimension 60cm l sed.	by 60cm are to be	placed on the	entire floor, o	calculate the i	number of tiles that
 b) If tiles of will be us 7. Some student: 	dimension 60cm l sed. s wrote an entrance	examination into	a Technical H	entire floor, o igh School a	nd the scores	were recorded on
 b) If tiles of will be us 7. Some student the table below 	dimension 60cm l sed. s wrote an entrance w.	examination into	a Technical H	igh School a	nd the scores	were recorded on
 b) If tiles of will be us 7. Some student: the table below 	dimension 60cm l sed. s wrote an entrance w. arks (x) equency (f)	e examination into	a Technical H	igh School a	nd the scores $10 11$	were recorded on
 b) If tiles of will be us 7. Some student the table below 	dimension 60cm l sed. s wrote an entrance w. arks (x) equency (f) mulative frequency	e examination into	a Technical H	igh School a	nd the scores $ \frac{10 11}{1 1} $	were recorded on
 b) If tiles of will be us 7. Some student the table below Min Free Cu a) Fill the row 	dimension 60cm l sed. s wrote an entrance w. arks (x) requency (f) mulanve frequency t for the cumulativ	examination into	a Technical H	igh School a	nd the scores	were recorded on
 b) If tiles of will be us 7. Some student: the table below Mi Fre Cu a) Fill the rough Calculate to the table below Calculate to the table below for the table	dimension 60cm l sed. s wrote an entrance w. arks (x) requency (f) mularive frequency for the cumulativ he third quartile fo	e examination into	a Technical H	igh School a	nd the scores	were recorded on 3 marks
 b) If tiles of will be us 7. Some student the table below a) Fill the root b) Calculate the table below 	dimension 60cm l sed. s wrote an entrance w. arks (x) equency (f) mulative frequency for the cumulativ henthird quartile for	e examination into	a Technical H	igh School a	nd the scores $ \frac{10 11}{1 1} $	were recorded on 3 marks
 b) If tiles of will be us 7. Some student: the table below a) Fill the root b) Calculate to the table below 	dimension 60cm l sed. s wrote an entrance w. arks (x) equency (f) mulative frequency to for the cumulativ heathird quartile for	e examination into	a Technical H	igh School a	nd the scores $ \frac{10 \ 11}{1 \ 1} $	were recorded on 3 marks
 b) If tiles of will be us 7. Some student the table below Mi Fre Cu a) Full the root b) Calculate to the table below b) Calculate to table below b) Calcula	dimension 60cm l sed. s wrote an entrance w. arks (x) requency (f) mulative frequency for the cumulativ heithird quartile fo	e examination into	a Technical H	igh School a	nd the scores	were recorded on 3 marks
 b) If tiles of will be us 7. Some student the table below a) Fill the row b) Calculate to the tancions fill 8. The functions fill 	dimension 60cm l sed. s wrote an entrance w. arks (x) requency (f) mulative frequency for the cumulativ herbird quartile for $x \mapsto 8 - 4x^2$ ($\sqrt{3}$)	e examination into	a Technical H	igh School a	nd the scores	were recorded on 3 marks
 b) If tiles of will be us 7. Some student the table below a) Fill the row b) Calculate to 8. The hanctions f a) Calculate f 	dimension 60cm l sed. s wrote an entrance w. arks (x) equency (f) mulative frequency for the cumulativ herbird quartile for the bird quartile for $x \mapsto 8 - 4x^2$ ($\sqrt{3}$)	e examination into	a Technical H	igh School a	nd the scores	umber of tiles that 4 marks were recorded on 3 marks
 b) If tiles of will be us 7. Some student the table below Mi Fre Cu a) Fill the root b) Calculate to the table below field the root b) Calculate field to the table below field to the table below	dimension 60cm l sed. s wrote an entrance w. arks (x) requency (f) mulative frequency is for the cumulative heighting quartile for $x \mapsto 8 - 4x^2$ ($\sqrt{3}$)	e examination into	a Technical H	igh School a	nd the scores	number of tiles that 4 marks were recorded on 3 marks

First / to the marrie of / Exant the shaded region, leaving no and take diam' erevi 7 marks it for 60,000 FCFA. Calculate his profit percentage. 4 marks 4/7

for more past questions and solutions download kawlo kawlo app or visit http://wwweetevision.com

12. Simplify $\frac{2x+y}{4} + \frac{x}{12} = \frac{x-2y}{3}$4 marks 13. Solve in \mathbb{R} , the equation $\frac{3}{5} - \frac{3}{2}x = -\frac{1}{4}x - 2$.4 marks 14. Scm 4cm In the figure above, Calculate the: a) Value of the angle ADB..... .2 marks b) Sides labelled BC and AC5 marks 15. Two matrices A and B are defined as follows: $A = \begin{pmatrix} 4 & 1 \\ 2 & 3 \end{pmatrix}$ and $B = \begin{pmatrix} 3 \\ 4 \end{pmatrix}$ Calculate the: a) Inverse A^{-1} of A Value of m if $AB = m \begin{pmatrix} -8 \\ 18 \end{pmatrix}$3 marks @TRU/RPI-Sc/5440/MATHS/2/MOCK 2025 5/7

for more past questions and solutions download kawlo kawlo app or visit http://www.gccsvision.com CamScanner



for more past questions and solutions download kawlo kawlo app or visit http://wwwcesrevision.com

Expand and simplify P(x). 3 marks State the degree of P(x). 1 mark ii. Rationalize the sur, $d \frac{3-3\sqrt{3}}{2+\sqrt{3}}$ 3 marks **TOTAL 15 MARKS** (ia) Draw the table of values for the function $f(x) = -3x^2 - 6x - 3$, for values of x in the range $-3 \le x \le 1$ 2 marks Plot the graph of f(x) in the orthogonal reference system $|\vec{i}| = 2cm$ and $|\vec{j}| = 1cm$. 3 marks c) State the maximum turning point of the curve of f(x). 1 mark d) From your graph, solve in \mathbb{R} , the equation f(x) = 0. 1 mark From your graph, since system, draw the line with equation y = 3x - 3. On the same reference system, draw the line with equation y = 3x - 3. 2 marks c) On the same point of intersection of the curve of f(x) and the line y = 3x - 3. f) State any one point of intersection of the curve of f(x) and the line y = 3x - 3. 1 mark ii) A Fashion Designer puts 3 rolls of white thread and 6 rolls of black thread in a bag. He picks out a roll of ii) A rasmon besterior procession and on the picks out a second roll from the same bag without replacing the first roll of thread that he picked out. Calculate the probability that he picks out: 2 marks a) A white roll and then a black roll. cerevis 3 marks b) Both rolls are of the same colour. **TOTAL 15 MARKS** 7/7 OTRU/RPI-Sc/5440/MATHS/2/MOCK 2025

for more past questions and solutions download kawlo kawlo app or visit http://www.gcerevision.com

1 -----

CS CamScanner