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2

SECTION A

ANSWER ALL 15 QUESTIONS IN THIS SECTION

In a concrete mixture, cement, sand and gravel are mixed in the proportion 1:2:3. (6 mark (a) Find the fraction of sand used in the mixture. (a) The scale of a map is 5 cm to 1 km. Express this as a ratio in the form 1: n 2. (5 marks) SKM •••••••• 1Km - 100,000 •••••••••••••••••••••••••••• (b) The scale of a plan is 1:32. Find the actual length and breadth of a room which measures 25 cm by 20 cm on the Octual Tin Given that p and q are two statements. Draw the truth table of the statement $(p \land q) \Rightarrow (p \lor q)$ 3. m Dv1 Â 1 G DAGAAIF (4 marks) (a) Find the Cartesian product $A \times B$ of the sets $A = \{x, y, z\}$ and $B = \{a, b\}$ 4. (6 marks) L. I. M. a. C. Ly. L. Ly. Zia.

		, j
	(b) A function $f: x \mapsto \frac{2x+3}{3}$ is defined on the set of real numbers. Find the elemen	t which is manned onto itself
	3 3000 11 -12	and is mapped onto itsen.
		3
	The exterior angles of a pentagon are given by x , $x + 20^{\circ}$, $3x - 50^{\circ}$, $2x$, and x .	-100
	Calculate the value of x.	(5 marks) 🗐
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•••••	X	
	Figure 1 shows a type of prism.	-
	(a) State its special name	(6 marks)
	Bectangulat elism	
·····		2cm
	(b) State its number of edges	
•••••	7cm	2cm
)	(c) Find its base area	Fig. 1
	40 = 272 = 14 cm	na na na na na na na
•••••		
	(d) Find the volume of the prism.	
•••••	Johnne - Lxux	
••••	·····	••••••
•••••	$7 \times 2 \times 2 = 28(m^2)$	
•••••	······································	

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4		
A cone has a height of 5 cm and a volume of 62.8 cm ³ . Find	d the volume of a similar cone whos	e height is 8 cm. G
A cone has a height of 5 cm and a volume of 62.8 cm . The your answer to one decimal place.		(5 mar
	•	
Figure 2 is a $(v - t)$ graph where the distance covered is the a Determine the distance covered in 9 hours.	area under the graph.	(5 mar
	V(m/s)	奏
		Fig. 2
	10	
	0 5 8	$\frac{1}{9}$ (h)
	1800 2	800 354000
Find the solution set for the inequation $5 < 4x + 1 \le 17$	and represent the extent	
Meknad 1 meknado	and represent the solution on a numb	er line. (5 marks
	tan 174	,
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		•••••••••••••••••••••••••••••••••••••••
		·····
10. An observer on top of a cliff 50 m high sees a ship at a beacliff at a bearing of 135°. Calculate the distance travelled b	ring of 120° and later on observes it	•
cliff at a bearing of 135°. Calculate the distance travelled b 0.52 0.7 0.7	y the ship within these observations, t	oming towards the
		(6 mark
		······································
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, 11.	In order to plant a pole NT, a builder placed two supporting bars AT a and 60° respectively with the floor. Given that the distance AN = 300 Find the length of (a) the pole, NT	nd BS against the pole making angles of 50° cm. (6 mai
		A CONTRACTOR N B
	(1) the last PS given that $ST = 50$ cm	
	(b) the bar BS given that ST = 50 cm.	sols.
X		
	The points A and B have position vectors $3i + 2j$ and $-i + 4j$ resp	ectively. Given that the point D has position
12.	The points A and B have position vectors $3t + 2f$ and $t + 3f$ resp	
	vector $11i - 2j$ and is such that $\overline{OD} = m \overline{OA} + n \overline{OB}$ Calculate the values of m and n	(6 mark
,	vector $11i - 2i$ and is such that $0D - mOR Crob$	(6 mark
· ·	vector $11i - 2i$ and is such that $0D - mOR Crob$	(6 mark
- - - -	vector $11i - 2i$ and is such that $0D - mOR Crob$	(6 mark
13.	vector $11i - 2i$ and is such that $0D - mOR Crob$	(6 mark
13.	vector $11i - 2j$ and is such that $OD - MOA CLODCalculate the values of m and nGiven two matrices A and B defined by A = \begin{pmatrix} 1 & x - y \\ 4 & 5 \end{pmatrix} and B = \begin{pmatrix} 1 \\ x \end{pmatrix}$	(6 mark
13.	vector $11i - 2j$ and is such that $OD - MOA ChooseCalculate the values of m and nGiven two matrices A and B defined by A = \begin{pmatrix} 1 & x - y \\ 4 & 5 \end{pmatrix} and B = \begin{pmatrix} 1 \\ x \end{pmatrix}values of x and y.$	(6 mark
13.	vector $11i - 2j$ and is such that $OD - MOA ChooseCalculate the values of m and nGiven two matrices A and B defined by A = \begin{pmatrix} 1 & x - y \\ 4 & 5 \end{pmatrix} and B = \begin{pmatrix} 1 \\ x \end{pmatrix}values of x and y.$	(6 mark

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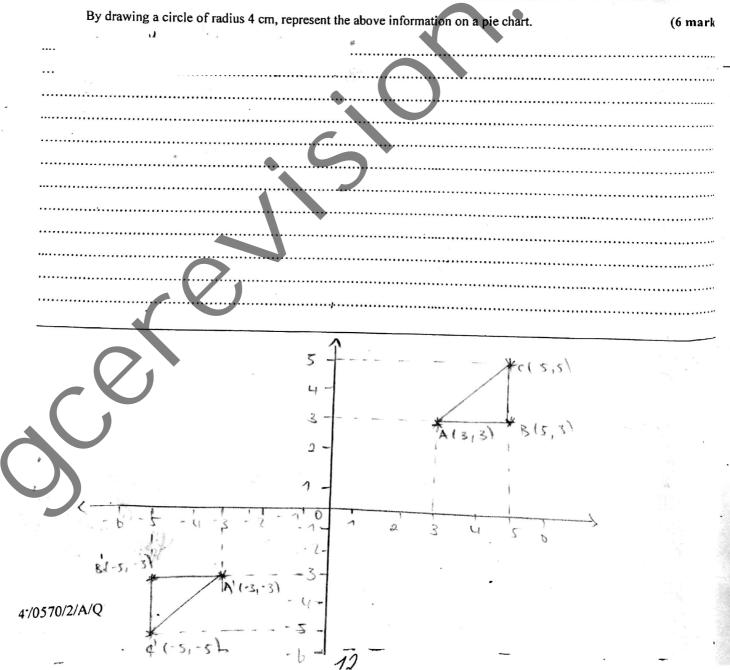
Triangle ABC with coordinates A (3, 3), B (5, 3) and C (5, 5) is rotated through 180° about the origin O. Determine the coordinates of the image of triangle ABC. (6 marl

The table below shows how a housewife spends her monthly income. 15.

14.

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ltem	Food	Rent	Savings	Others	
Amount (FCFA)	40000	20000	15000	25000	



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SECTION B

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

1. (i) A student's pocket allowance is her profit from buying and selling 3 packets of sweets every week of 5 school days.

Given that she buys each packet of 45 sweets for 700 FCFA and sells a sweet for 25 FCFA, calculate (a) Her selling price per packet

(b) Her profit per packet

(c) The student's weekly profit

(d) Her average daily pocket allowance

(ii) A man bought a bottle of champagne (C) and two bottles of wine (W) at 8 000 FCFA, while another man bought two bottles of champagne and three bottles of wine at 14,000FCFA from the same shop. (a) Write down equations relating champagne and wine

hence

(b) Calculate the cost of each bottle of champagne and each bottle of wine.

2. (i)

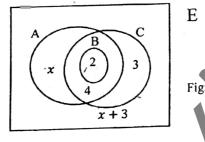


Figure 1 is a Venn diagram indicating the number of elements in each region. Given that n(E) = 22.

Find

(a) $n(A \cap C)$

(d) n(C')

(b) $n(A \cap B)$

(c) The value of x

(e) Given that $A \cap C = D$, state the relationship between the sets D and C

Given the functions f and g defined as

$$f: x \mapsto \frac{3}{x-2}; x \neq 2$$

$$g: x \mapsto 5-2x, x \in \mathbb{R}$$
,

Find

(a) g(-2)

(b) f^{-1} in a similar manner

(c) fg(x)

3. (i) On the same axes and using a scale of 2cm to 1 unit on the x-axis and 1cm to 2 units on the y-axis, draw the graphs of $f(x) = 2x^2 - 6x - 5$ for $-2 \le x \le 5$ and y = x + 3.

8

From your graph, determine the value(s) of x for which

 $2x^2 - 6x - 5 = x + 3$

(ii)

- (a) Construct an equilateral triangle ABC of side 8cm.
- (b) Construct the incircle of triangle ABC
- (c) Measure the radius of the incircle.
- 4. (i) Linda is designing shorts for nursery school kids. She needs to know how long to make the legs. She measures the waist-to-knee length of 100 nursery school kids. The results are shown in this table

Waist- to- knee length (in cm)	Frequency
 32 < <i>l</i> < 34	3
34 < l < 36	16
36 < l < 38	47
38 < <i>l</i> < 40	25
40 < <i>l</i> < 42	5
42 < l < 44	4

(a) Copy and complete this cumulative frequency table

Waist- to- knee length (in cm)	Cumulative Frequency
32 < l < 34	
34 < <i>l</i> < 36	
36 < l < 38	
38 < l < 40	
40 < l < 42	
42 < l < 44	

(b) Draw a cumulative frequency curve for this data.

(c) Use your graph to estimate the median waist- to- knee length.

Linda decides to make shorts for waist- to -knee length in the range 35cm to 39cm.

(d) estimate the percentage of her sample that the shorts will fit.

(ii)(a) Given that $\overrightarrow{OP} = 2i + j$ and $\overrightarrow{OQ} = 5i - 3j$, find $|\overrightarrow{PQ}|$. (b) Figure 2, shows a vector diagram, such that

 $\overrightarrow{OA} = \underline{a}, \overrightarrow{OB} = \underline{b}$ and the ratio AX:XB = 1:3

Express \overrightarrow{AB} and \overrightarrow{XB} in terms of \underline{a} and \underline{b}

