CONFIDENTIAL EXAMINATIONS 2024

P.7 MATHEMATICS

Time allowed: 2hours 30minutes

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1. This p	paper ha	s two s	ections A	A and I	3				
2. All the provided		ng in b	oth secti	ons A a	and B sh	ould be	shown	in the	spaces
3. All w Diagram	•			•	blue or	black p	ooint pe	e n or fo	untain pe
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5. Any h	nandwri	ting tha	t cannot	be easi	ily read	may lea	nd to los	ss of ma	ırks
6. Do no paper	ot fill in	anythir	ng indica	ited for	examin	ers use	only an	d those	inside the
SEC	TION	M	IARKS				7		

SECTION	MARKS
SECTION A	
SECTION B	
TOTAL	

SECTIONA

1	Workout:0÷2	2	Write four hundred ninety two in figures.
3	Given the sets C and D below. C 4 5 6 7 1 Find n(C)	4	Solve:3p-3=4 (finite8)

5	Express 60cm as a percentage of 3 meters.	6	What is the mean of $\frac{1}{2}$ and $\frac{1}{3}$?
7	In the diagram below, find the size of angle r. 65°	8	Find the lowest common multiple of two numbers whose product and GCF is 360 and 6 respectively.

9	Work out: 4x10 ⁻³	10	Using a pair of compasses, a ruler and a pencil only, construct an angle of 105°
11	A tortoise at reptiles village has lived for 2490 years, Express the tortoise's age in Roman numerals.	12	Set Q has 63 proper subsets. Determine its number of elements.

13	Five sets cost sh. 20,000 How many similar sets can one buy with sh.36,000 at the same rate?	14	Simplify: 3k +2 -k+1 4 3
15	Calculate (33.4x9)-(9x3.4) using distributive property.	16	Three porters can build the house in 6 days. How many more porters will be needed to build the same house in 2 days working at the same rate?

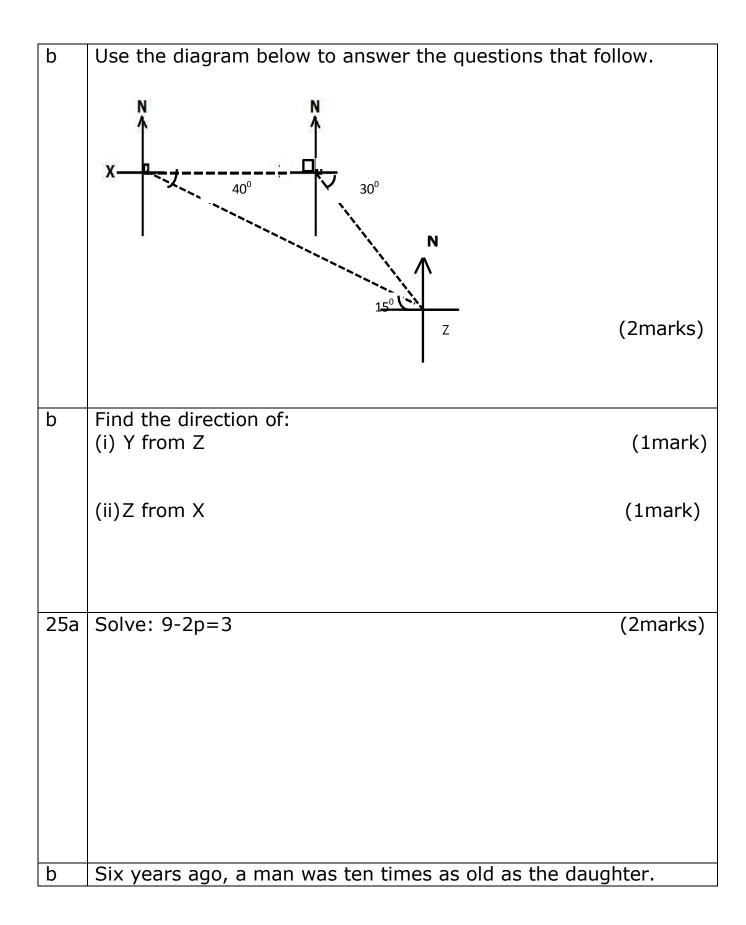
17	It is 8:00a.m now. What time of the day will it be after 68 hours?	18	Electric poles were fixed on both sides of the road 2km long at intervals of 20m. How many poles were fixed?
19	In a class, there are 13 girls and 12 boys. What is the probability of choosing a boy at random to become a prefect?	20	A tourist has Ugsh82,500 and wants to buy Us dollars from a forex bureau. How many dollars will the tourist get if US\$1=Ugsh2750?

SECTION B(60MARKS)

21	In a class of 50 pupils, 32 like science(S), K like M 18 like both subjects while 3 like both subjects.	laths (M) only,
	Complete the Venn diagram below. ϵ =50	(2marks)
	n(S) n(M)	
b)	How many pupils like maths?	(2marks)
c)	Find the probability of choosing a pupil at random like mathematics to be a captain.	who does not (1mark)

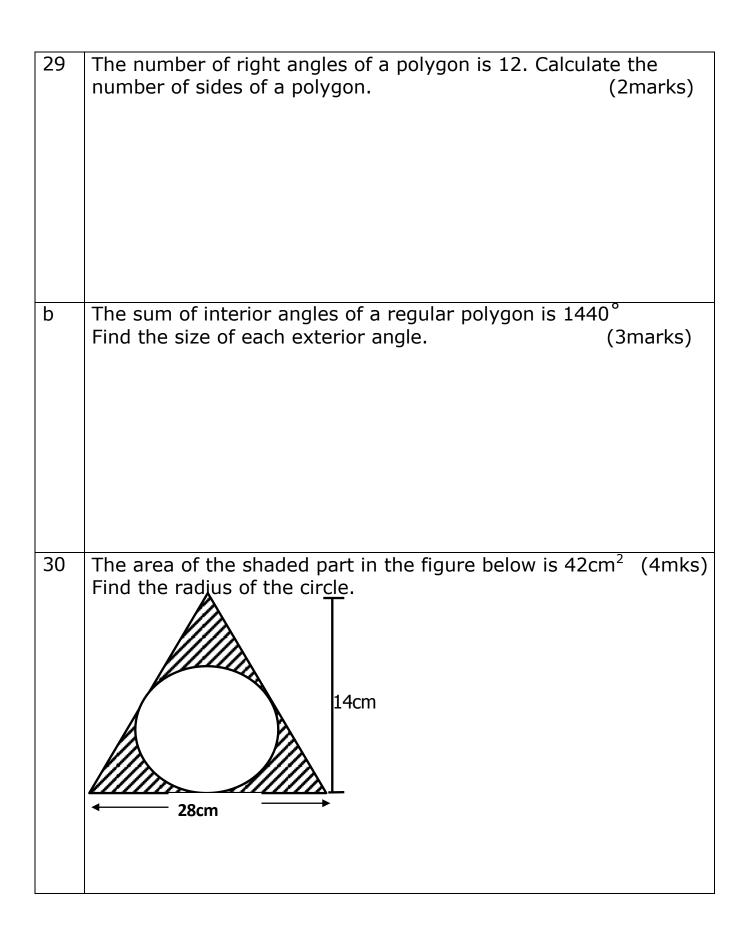
22 a)	In a village of 450 people, $\frac{3}{5}$ are males and the rest are							
-	females. $^2\!/_3$ of the males are above 18 years and $^1\!/_4$ of the							
	females are below 18years. Find the total number of people below18 years of age.(3marks)							
b	If the number of males increased by 30, in what ratio did it increase? (2marks)							
23	The tank below is $\frac{1}{3}$ full of water.							
a)	How many liters of water are in the tank? (2marks)							

b	How many liters are needed to fill the tank?	(2marks)
С	Find the water level when the tank is completely full of	water. (1mark)
24a	The scale on a map is 1:9000. If the distance on the master, what is the actual distance in km? (2marks)	ap is



	If the sum of their present age is45years, how old is the daughter? (3marks)								
26a	Using a pair of compasses, a ruler and a pencil only construct a parallelogram PQRS, where by PQ=7.7cm, angle PQR=45° and line QR = 3.8cm. (4marks)								
b)	Measure angle PRS (1mark)								
27	Study the following exchange rates and answer the questions that follow.								
	Currency Selling price (Ugsh) Buying price (Ugsh) Ksh 1 36 35 US \$1 3600 3560								

£	1	485	0			480	00		
		Ksh 25	500, hov	w much	mo	ney	in Ugand		gs did marks)
	had	ر 240	pound s	terlings	, Н	ow r	nany US (id he Bmarks)
_				-	uat	ion		(4marks)
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X			2	- 2					
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If ge	Anam I he get? If Alvin get? The eq Comple	Anam had I he get? If Alvin had get? The equation Complete the X	Anam had Ksh 25 he get? If Alvin had 240 get? The equation of a Complete the tab	Anam had Ksh 2500, how he get? If Alvin had 240 pound so get? The equation of a line is Complete the table using the complete the complete the table using the complete the complete the complete the complete the complete the table using the complete the	Anam had Ksh 2500, how much he get? If Alvin had 240 pound sterlings get? The equation of a line is x=y-2 Complete the table using the eq	Anam had Ksh 2500, how much month he get? If Alvin had 240 pound sterlings, Hoget? The equation of a line is x=y-2 Complete the table using the equat	Anam had Ksh 2500, how much money he get? If Alvin had 240 pound sterlings, How r get? The equation of a line is x=y-2 Complete the table using the equation.	Anam had Ksh 2500, how much money in Ugand he get? If Alvin had 240 pound sterlings, How many US of get? The equation of a line is x=y-2 Complete the table using the equation.	Anam had Ksh 2500, how much money in Uganda shilling he get? (2 If Alvin had 240 pound sterlings, How many US dollars d get? (3 The equation of a line is x=y-2 Complete the table using the equation. (4)



31	An exercise book costs sh.330. Walugembe uses 12 beterm. How much does walugembe's father spend on hevery school year of three terms?	-
b	Bernard had a half loaf of bread. He shared it among his 6 visitors. How much did each visitor receive?	(2marks)
32	The sum of three consecutive even numbers is 66, If to number is m, Find the value of m	the middle (2marks)
b)	Find their product.	(2marks)