KAMPALA PRIMARY SCHOOLS HEADTEACHERS' EXAMINATIONS COMMITTEE (KAPSHA) PRIMARY SEVEN PRE-MOCK EXAMINATIONS 2024 MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES.

Personal No.

	(4)		
Candidate's Name: _	MARKING	GUIDE	
School:			Tall, a

School No:

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

Random No.

Read the following instructions carefully.

Division:

- 1. This paper is made up of two sections: A and B
- Section A has 20 questions (40 marks)
 Section B has 12 questions (60 marks)
- 3. Answer **all** questions. **All** answers to both section **A** and **B** must be written in the spaces provided.
- ALL answers MUST be written using a Blue or a Black - point pen of fountain pen.
- 5. Un-necessary changes of work may lead to loss of marks.
- 6. Any handwriting that cannot easily be read may lead to loss of marks.
- 7. Do **not** fill any thing in the boxes shown "For Examiner's use only".

	EXAMIN SE ONL	
QN. NO	MARKS	SIGN.
1 – 10	٠	
11 – 20	3.	1000 100
21 – 25		
26 – 30		64 45
31 – 32		
TOTAL		(a)

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TURN OVER

SECTION A (40Marks)

Add:

Find AnB

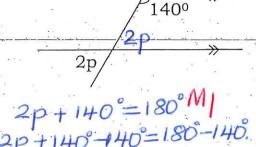
Write XLIX in words.

- 3. Given that set $P = \{ \text{odd numbers} \}$ less than 10) and set $\mathbf{Q} = \{Prime \}$ numbers less than 10}
- Forty nine . By Write 34.396 in standard form. 4.

- Q= {2, 3 5 0} PNQ= 93, 5, 73B1
- Simplify: 7k 3h + k + 6h

7K-3h+K+6h 1K+K +6h-3hM

Find the value of **P** in degrees. 6.



$$2p = 40^{\circ}$$

$$2p = 40^{\circ}$$

$$p = 20^{\circ}$$

Find the least number of oranges 8. that can be shared among 12 or 18 P.7 pupils without leaving a

emair	naer.	4. 1.	
2	12	18	(2×2)(3×3)
2	6	9	.1 1119
3	3	9	NI TY
3	1	3	36A7
7) to	J	

Round off 479.995 to the nearest hundredths.

ĵ.	9.	In the diagram below shade 80%	10. Simplify: 78 - 710
	11.	80% of 5 $80 \times 5 = 8 \times 5 = 4 \text{ parts}$ Find the next number in the	12. Change 36km/hr to meters per
	*	sequence below. 24, 17, 11, 6, 2, -1 B	second. 1 Km = 1000 m 36 Mpsec = 36000 mV = 36000 mV = 10 m/sec
			$1hr = 3600sec.$ $5 = \frac{D(M)}{T(sec)}$
	13.	he has sh.8,400? 4 pens costs sh.4800	sh. 1200 buys 1 pen.
		1 pen costs sh. 4800 4 = sh. 1200B	$= 7 \text{ pens.} B_1$
	14.	Using a pair of compasses, ruler 45°	and pencil only, construct an angle of
			45°C2

©

15.	The average weigh	t of 6 boys is
	50kg . If two boys o	f total weight
	120kg leave the gre	oup, find the
	total weight of the r	emaining
	boys.	11-5
	Sum of 6 boys	7
		= 180K9.
	Sum=AXN	= 180K9

remaining
$$AV = S,$$

$$= 180 \text{Kg}.$$

$$= 45 \text{Kg}.$$

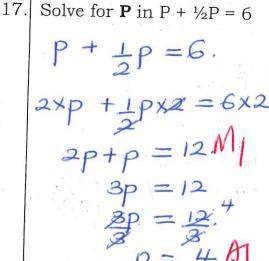
Work out:
$$\frac{2}{3} + \frac{3}{4}$$

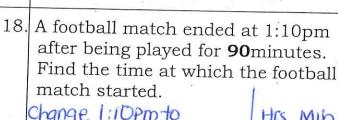
$$\frac{2}{3} + \frac{3}{4} = \frac{8 + 9}{12} M_1$$

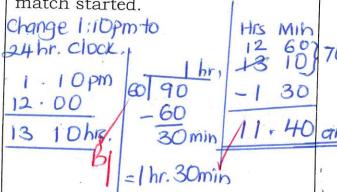
$$= \frac{17}{12}$$

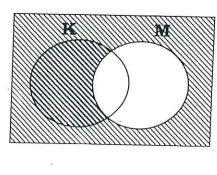
$$= \frac{5}{12} M_1$$

= 50Kg.









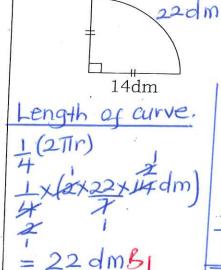
Describe the unshaded part.

19.

(C)

-4

Work out the perimeter of the 20. figure below.



Perimclen

SECTION B (60marks)

21. a) Express 402 five to a decimal base.

(4×5²)+(0×5)+(2×5°)M (4×5×5)+(2×1) 100+2.

102ten M

(2marks)

If $44_P = 35_{nine}$. Find the value of P.

 $(4 \times p') + (4 \times p') = (3 \times 9') + (5 \times 9')$ $(4 \times p) + (4 \times 1) = (3 \times 9) + (5 \times 1)$ $(4 \times p) + (4 \times 1) = (3 \times 9) + (5 \times 1)$ $(4 \times p) + (4 \times 1) = (3 \times 9) + (5 \times 1)$ $(4 \times p) + (4 \times 1) = (3 \times 9) + (5 \times 1)$ (5×1) (7×1)

- In a class of 80 pupils, all of them speak English. 50 speak English and 22. Luganda (L), Y pupils speak English and Kiswahili (K), 7 pupils speak all the 3 languages while 2 pupils speak only English.
- Represent the above information a) on Venn diagram below.

 $n(\mathcal{E}) = 80 = E$

n(L)=50 $n(K) = \iota$

(3marks)

Find the number of pupils who b. speak English and Kiswahili only.

7+1+50-7+2=80

y=35 By English & Kiswahili Only

= 28 pypils 8]

23. Work out: 0.024 + 0.012

a.

0.024 +0.012

(3marks)

Express 0.2424.... as a rational b. number in its simplest form.

4= 0.2424...(0)

100x4=0.2424-x100 (b)

100y=24.2424.M

(2marks)

24. A motorist left town A at 8:00am and reached town B at 10:00am

How far is town B from town A? a.

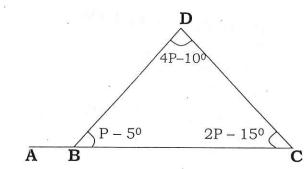
Time taken	
10.00	$D = S \times T$
-8.00	= 90Km x2hr
2.00	br
= 2h13. b	=90x2Km
	= 180KmA

Calculate the average speed for b. the whole journey. Total time

2hrs + 3hrs.

Study the triangle below and use it to answer questions that follow. 25.

(3marks)



Find the value of P.

Find the value of P.

$$4p-10+2p-15+p-5=180M$$
 $4p+2p+p-10-15-5=180^{\circ}$
 $7p-30=180^{\circ}$
 $7p-30+30=180+30^{\circ}$
 $7p=210$
 $17p=210M$
 $17p=210M$
 $17p=30^{\circ}M$

Find the angle marked ABD b.

$$2p-5 = 30^{\circ}-5^{\circ}$$
 $= 25^{\circ} B_{1}$
 $25 = 180^{\circ}$
 $25 = 180^{\circ}$

$$\angle ABD = \frac{-25}{1550}$$

(2marks)

(3marks)

- 26. Mwiza bought the following items in the table below from Mr. Wasoma's shop in Katwe.
- a. Complete the table.

(4marks)

ITEM	UNIT PRICE	AMOUNT
3 bars of soap	sh. 4,000	sh. 12,000 B1
2 loaves of bread	sh. 5,000 B	sh. 10,000
2½ lig of salt	sh. 800	sh. 2,000 B
TOTAL EXPENDITURE	6 2 1	sh. 24,000

Soap.

sh. 4000

x 3

sh. 12,000

Bread. 12,000/=
sh. 10,000 + 10,000/=
22,000/=
sh. 5000 22,000/=
24,000/=
22,000/=
22,000/=

 $\frac{2500}{800} = \frac{5}{3} \text{ kg},$ $= \frac{21}{2} \text{ kg}.$

b. If Mwiza paid sh. 18,000 what percentage discount was she given?

% age disc = disc
$$\times 100\%$$

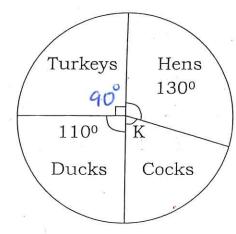
Original

= $\frac{5h.6000}{5000} \times 100\%$
= $\frac{100}{4}\%$ = $\frac{25\%}{6}$

sh. 24000 sh-18,000 sh. 6,000

(2marks)

27. The pie-chart below shows how birds are distributed on Mrs. Namuli's farm in Nkokonjeru Mukono District. Use it to answer questions that follow.



a. Find the value of **K**.

$$K + 110^{\circ} + 90^{\circ} + 130^{\circ} = 360^{\circ} M_{1}$$
 $K + 200^{\circ} + 130^{\circ} = 360^{\circ}$
 $K + 330^{\circ} = 360^{\circ}$
 $K + 330^{\circ} - 330^{\circ} = 360^{\circ}$
 $K + 330^{\circ} - 330^{\circ} = 360^{\circ}$
 $K = 30^{\circ}$

(2marks)

b. If there are 4 more ducks than Turkeys, Find the total number of birds on Namuli's farm.

Difference in degrees.

110

- 90

20

Let the total be y

$$\frac{20}{360}$$
 of $y = 4$. M

$$\frac{2y}{2} = \frac{4 \times 36}{27}$$

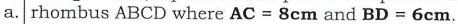
$$y = 2 \times 36 \text{ birds}$$

$$y = 72 \text{ birds}$$

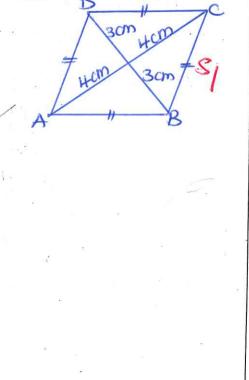
(3marks)

28. Using a ruler, a pencil and a pair of compasses only, construct a

3cm



3cm



b. Measure the length AB.

1.



(4marks)

(4marks)

A tank is 3 full of water. When 20litres are removed it becomes 2 29.

How many litres does the tank hold when it is completely full?

traction removed

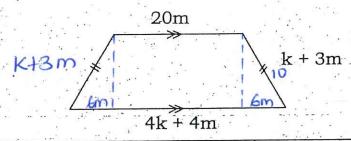
Let the full capacity be oc $\frac{3}{4} - \frac{2}{3} = \frac{9 - 8}{12}$ $= \frac{1}{12} \cdot B$ $= \frac$

(3marks)

b. If 1 litre costs sh. 2,000, how much will the tank cost when it's completely full?

1 litre costs sh. 2000 240 lities costs sh. (240 x 2000) M sh. 480,000

The shape below is a nursery bed of Mr. Wante. Study it and use it to answer questions that follow.



10m

If the perimeter of the nursery bed is 72meters, find the value of K.

K+K+K+3+4K+4m+20m=72m 6k + 30 = 72

6K+30-30= 72-30.

K = 7

Workout the area of the nursery b. 1 a2+ b2= c2 Hypotenus h2+62=102

K+3m h2+(6x6)=(10x10)

7+3m

10m/ 12+36=100

(4×7)+4 h2+36-36=100-36

28+4/

h2=64 A=1h(a+b) 18 = 164 LX8#120+32

KAMPALA PRIMARY SCHOOLS HEADTEACHERS' EXAMINATIONS COMMITTEE (1908) PRIMARY SEVEN MATHEMATICS PRE-MOCK EXAMINATIONS 2024



31,	Two buses K and M leaves the bus park in intervals of 20 minutes and
	30 minutes respectively.
-	A.C. 1

a. After how many minutes will the two buses leave at the same time?

2	2	20	30	2×2×3×5
	2	10	15	4×15
	3	5	15	M) 60 minutes A
	5	5	5	OVIIIIIII
		i	1	
2		a :		

(2marks)

b. If they last leave the bus park at 9:45am. At what time will they leave together again?

60minute= 1 hour.

(2marks)

32. Given that
$$Y = X + 2$$
. Complete the table below correctly. (5marks)

$$x$$
 -1 $-2g$ 2 $3g$ -4
 y $1g$ 0 $4g$ 5 $-2g$
If $x = -1$ If $y = 0$ If $x = 2$
 fqn ? $y \neq x \neq 2$ $x + 2 = y$. $y = x + 2$
 $y = x + 2$. $x \neq 2 = 0$ $x \neq 2 \neq 3$
 $y = 1$ $x = -2$
 $x = -2$

$$5c+2=y$$
.
 $x+2=5$.
 $x+2=5-2$.
 $x=3y$
 $y=x+2$.
 $y=x+2$.
 $x=4$.

"GOOD LUCK"