# KAMPALA CAPITAL CITY AUTHORITY

# DIRECTORATE OF EDUCATION AND SOCIAL SERVICES PRIMARY SEVEN MOCK EXAMINATIONS 2022

## **MATHEMATICS**

2 HOURS 30 MINUTES

	TIME ALLOWED:	2 HOURS 30 MINU	LEN		•
INDEX NO:	EMIS No.	Personal No.			
	444.0844	C CPHEM	Æ.	•	
CANDIDATE	'S NAME MARKIN	y OGILIII			******
	'S SIGNATURE:		-/		
•	AME:				
Read the fo	llowing instructions o	carefully.			-C'
1. This pape	r is made up of two sec	tions:	A - 4	EXAMINE SE ONLY	
A and B	has 20 questions (40 t	narks)	QN. NO.	MARKS	SIGN
3. Section B	has 12 questions (60	marks)	1 - 10		
4. Answer A	LL questions in both severs <b>MUST</b> be written in	ections <b>A</b> and <b>B</b> n Blue or Black	11 - 20		
Ball - poi	nt pen or ink		01 05		
6. Un-neces	sary changes in your w	ork may lead	21 – 25		
to loss of	marks. ams <b>MUST</b> be drawn in	pencils.	26 - 30		
8. Any hand	dwriting that cannot be	easily read may	31 - 32		
	oss of marks.	o chown	JI - J2		
	ill any thing in the boxe	29 2110MII	TOTAL	,	
"For Exc	aminer's use only".				

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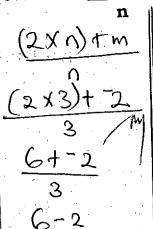
TURN OVER



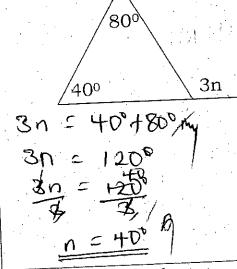
1.	Workout:	$12 \times 3$
, ,	12	Dr.
-	X3/36/	m/
,	1	1 V

Subtract: 2 0 3 five 134 five B

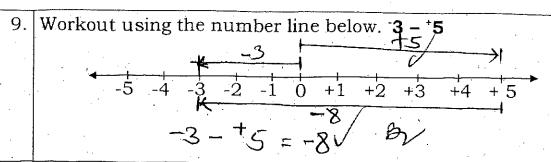
In the triangle below, find the value of **n** in degrees.

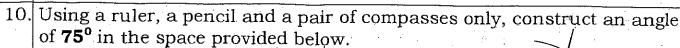


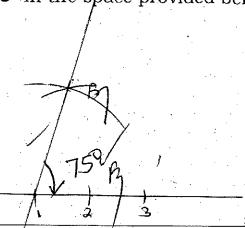
Given that n = 3 and m = -2, evaluate 2n + m

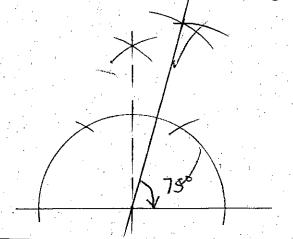


- If a dice is tossed once, what is the chance of picking a square number? 1, 2, 3, 4, 5, 6 D.c = {1, 4 } prob = 2/6 } n(T.c) = 6 \$ Prob = n(b)
- What number has been expanded to give;  $(7x10^3)+(6x10^1)+(8x10^{-1})+(4x10^{-2})$ (7X10X10X1) +(6X10) +(8X01)+(4X001) 7000 + 60 + 0,8 + 0,04 7000 000
- Mary had 20 litres of liquid soap. She gave each child ½ litre. How many children did she give? 20+12
- Find the median of the numbers. 8, 10, 4, 1, 6 and 9









- 11. At DFCU Bank, One US Dollar costs Ug. Sh 3,600. How much money in Uganda Shillings would one get from 1050 US Dollars.

  1 US S South Vg. sh. 3600.

  X 1050

  X 1050
  - Write 147 in Roman numerals.

    = 100 + 40 + 7

    C XL VII

    = C XL VII

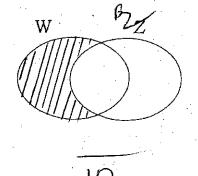
- 13. Peter got 2½% in a Maths contest.

  What fraction of the work did Peter get?

  2½

  100

  7 100
- 14. In the Venn diagram below; Shade **Z**<sup>1</sup>.

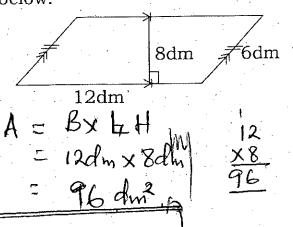


15.	What angle is a complement of $(2x + 30)^0$ ?
	$(2x + 30)^{\circ}$ ?
	90°-(2x+30°) M
	90°-2×°-30°
	90°-30°-2x°
	60'-2xt
-	(6p-2x)0

Solve the equation:	$\frac{1}{2}$ p + 1 = 3
1P+1 =3	<b>.</b>
2	
12 pt = 2 - 2 - 2	
1 = 2X2	
2p = 4 1	

16.

17. Find the area of the Parallelogram below.



18. Add: Hrs Min 95+65-1735 + 1 50 5 35 h

12

19. A pupil has  $\frac{2}{3}$  of an orange. If she gave  $\frac{1}{4}$  of it to her friend. What fraction of the orange did she

remain with?

Naction given out.

4 of 3/3

4 x x 3/3

Fraction that remains

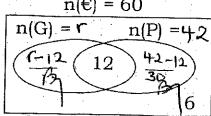
- 为
- 20. The two base angles of an isosceles triangle are:  $(2x + 50)^{\circ}$  and  $(4x+20)^{\circ}$ . Find the value of

$$(+x+20)^{\circ} = (2x+50)^{\circ}$$
 $(+x+20)^{\circ} = (2x+50)^{\circ}$ 
 $(+x+20)^{\circ} = (2x+50)^{\circ}$ 

### SECTION B

- 21. In a birthday party, **60** students were invited, **42** were served with popcorns (**P**), **r** were served with groundnuts (**G**), **6** did not take any and **12** were served with both eats.
- a. Represent the above information in the Venn diagram below. (2m)

ebove information in the venn diagram below. (2marks)  $\in$ ) = 60



b. How many students like ground nuts?

1-12+12 + 30+6 = 60/M

1+36-36 = 60-36

= 24 A7

24 Students luke grand man

(2marks)

c. Find the number of students who were served with one type of eats.

(2marks)

Find the number of students who were served with one type of eats. (1-12) + (42-12)(1mark)

(1-12) + (42-12) (24-12) + 30 $(42, \sqrt{6})$ 

22. Complete the shopping bill table below. (Smarks) Atulc ITEM UNIT PRICE QUANTITY **AMOUNT** Bread sh. 3,500 per loaf 2 loaves sh. 7000 f Meat sh. 10,000 per kg 12 / kg sh. 5,000 Rice

 Rice
 sh. Hood. Ber kg.
 1½ kg
 sh. 6,000

 Sugar
 sh. 3,000 per kg
 1.5kg
 sh. 4500 / 4

 Milk
 sh. 1200 per litre
 2½ litres
 sh. 3,000

 Total expenditure
 sh. 25 sto
 sh. 25 sto

	<del></del>	<u> </u>	, 1	)   - · · · · · · · · · · · · · · · · · ·
 Bread	Meat.	Rice.	Sugar.	Total expenditur
Sh. 3500	SK. Stood	Sh. 6000 - 3/2	300 x 15	Sh. 7000 Sh. 5000
5h7000	5h. 12000	Shand x 3	119	Sh. 6000
	1/2 Kg	Sh. 400%	\$14500.	1 94 <u>1</u> 450 <del>4</del> 1
	1219	(00)0		Sh. 30.50
			,	

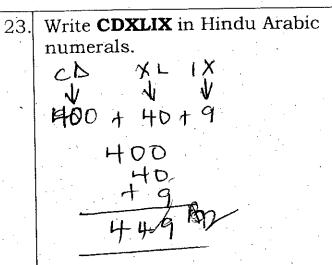
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P.7 MATHEMATICS MOCK EXAMINATIONS 2022

Page 5 of 10

**73** 2....6



Find the sum of the place value of 4 and the value of 6 in the number: 435.16

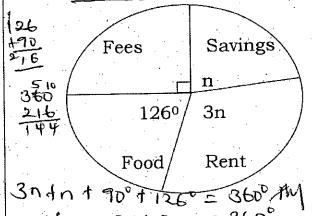
P.V. 3 5 1 6

Coop 1

C

(2marks)

24. The pie chart below shows how Mrs. Opio spends her monthly income. If she saves **sh. 120,000**, how much money does she earn per month?



 $36^{\circ} \longrightarrow \text{Sh.} 120,000 M$   $1^{\circ} \longrightarrow \text{Sh.} 120,000$   $36^{\circ} \longrightarrow \text{Sh.} 120,000 \times 36^{\circ}$   $36^{\circ} \longrightarrow \text{Sh.} 120,000 \times 36^{\circ}$   $36^{\circ} \longrightarrow \text{Sh.} 120,000 \times 36^{\circ}$ 

 $4n + 216^{\circ} = 360^{\circ}$   $4n + 216^{\circ} = 360^{\circ} - 216^{\circ}$   $4n = 144^{\circ}$   $4n = 144^{\circ}$   $4n = 144^{\circ}$ 

• 1

(5marks)

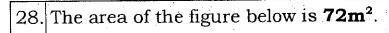
Sh. 1200,000

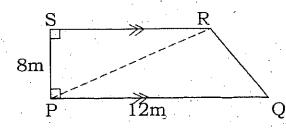
25. Simplify:  $0.12 \times 5.4$ a.  $0.03 \times 0.6$   $(12 \times 54) - (3 \times 6)$   $(100 \times 10) - (100 \times 10)$   $(100 \times 10) - (100 \times 10)$ 

(**3**marks)

(C)

26.	A bus left Kampala bus park at 8: a distance of <b>270km</b> apart.		
a.	How long did the bus take to reach Soroti?  How ! Mih   197 Hy how		Calculate the speed of the bus in km/hr.  Speed = 1/7
	12:00 -8 30 3 30 m		= 270 km M 4 & h
	3 30/ +1 00/ 4 30 A		= 270 Km = 9 K 270 Km x 21/
•	4Hours and 30 minutes (2 marks)		= 60 Kn/h/B) (2 marks)
27. a.		b.	Nashed has <b>496</b> goats on the farm. Round off the number of her goats to the nearest tens.
	= CMLV/B		+ 10 500 4962 500
	(2marks)		4962 500 (Imark)
C	1.7		(2marks)
	(3+5)-4=P(mods)M		
	8-4=p(mods) #4		
	P = 4 (mods)A	* 25	
		. `	
		10	





Find the length of 
$$\overline{SR}$$
.

 $\frac{1}{2}H(a+b) = Area$ 
 $\frac{1}{2}Rm(5R+12m=72m^2)$ 
 $\frac{1}{2}Rm(5R+12m) = \frac{18m}{4m}$ 
 $\frac{1}{4}Rm(5R+12m) = \frac{18m}{4m}$ 
 $\frac{1}{4}Rm(5R+12m) = \frac{18m}{4m}$ 

(3marks)

b. Workout the area of the triangle RSP.

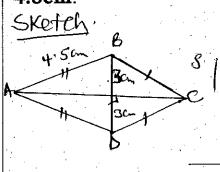
(2marks)

(**G**marks)

Using a pencil, a ruler and a pair of compasses only, construct a kite ABCD where diagonal AC = 11cm, BD = 6cm and line AB = AD =

Accurate diagram.

4.5cm.



Check see the last leaflet.

b. Measure length BC in cm.

(1mark)

8.2 cm, 8

30. A man deposited **sh. 120,000** in a bank which gives 5% interest rate per month for four months.

a. Calculate the simple interest.

(3marks)

$$S.1 = PXTXR$$
  
= Sh. 120,000 X H X  $\frac{5}{100}$  my  
= Sh. 1200 X 4 X  $\frac{5}{100}$  my  
= Sh. 1200 X 20  
= Sh. 24000

b. How much money will he have at the end of the period?

(2 marks)

31. Solve for **m**:

a. 
$$2(2m+4)-2(m-2)=6$$
  
 $4m+8-2m+4=6M$   
 $4m-2m+8+4=6$   
 $2m+12-12=6-12$   
 $2m=-6$ 

(2marks)

