KAMPALA CAPITAL CITY AUTHORITY

KCCA
KAMPALA CAPITAL CITY AUTHORITY
For a Better City

DIRECTORATE OF EDUCATION AND SOCIAL SERVICES
PRIMARY SEVEN MOCK EXAMINATIONS 2022

MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES

INDEX NO:

EMIS No.						Personal No.		

CANDIDATE'S NAME: ....

CANDIDATE'S SIGNATURE: ....

EMIS No: ....

DIVISION NAME: ....

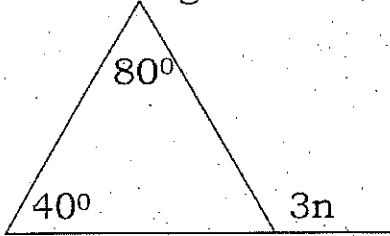## Read the following instructions carefully.

1. This paper is made up of two sections: **A** and **B**

2. Section **A** has **20** questions (**40** marks)

3. Section **B** has **12** questions (**60** marks)

4. Answer ALL questions in both sections **A** and **B**

5. ALL answers **MUST** be written in Blue or Black Ball - point pen or ink

6. Un-necessary changes in your work may lead to loss of marks.

7. All diagrams **MUST** be drawn in pencils.

8. Any handwriting that cannot be easily read may lead to loss of marks.

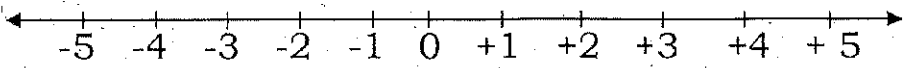9. Do **not** fill any thing in the boxes shown *"For Examiner's use only"*.

FOR EXAMINERS' USE ONLY		
QN. NO.	MARKS	SIGN
1 - 10		
11 - 20		
21 – 25		
26 - 30		
31 - 32		
TOTAL		
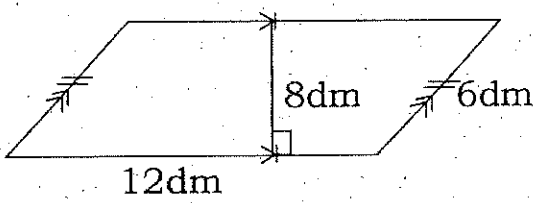
TURN OVER

|			
1.	**Workout:** 12×3	2.	**Subtract:** $\begin{array}{r} 2\ 0\ 3_{five} \\ -\ \ \ 1\ 4_{five} \\ \hline \\ \hline \end{array}$
3.	In the triangle below, find the value of **n** in degrees.	4.	Given that **n = 3** and **m = -2**, evaluate $\dfrac{2n + m}{n}$
5.	If a dice is tossed once, what is the chance of picking a square number?	6.	What number has been expanded to give; $(7 \times 10^3) + (6 \times 10^1) + (8 \times 10^{-1}) + (4 \times 10^{-2})$
7.	Mary had **20** litres of liquid soap. She gave each child ½ litre. How many children did she give?	8.	Find the median of the numbers. **8, 10, 4, 1, 6** and **9**

9.	Workout using the number line below. $^-3 - {}^+5$

A number line ranging from -5 to +5.

10.	Using a ruler, a pencil and a pair of compasses only, construct an angle of **75⁰** in the space provided below.

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**.	12.	Write **147** in Roman numerals.

13.	Peter got **2½%** in a Maths contest. What fraction of the work did Peter get?	14.	In the Venn diagram below; Shade **Z^1**.

A Venn diagram with two overlapping circles labelled W and Z.

15.	What angle is a complement of **(2x + 30)⁰** ?	16.	Solve the equation: $\frac{1}{2}$ p + 1 = 3

17.	Find the area of the Parallelogram below.

18.	**Add:**

```
     Hrs    Min
      3      45
   +  1      50
   _____


   _____
```

19.	A pupil has $\frac{2}{3}$ of an orange. If she gave ¼ of it to her friend. What fraction of the orange did she remain with?

20.	The two base angles of an isosceles triangle are: **(2x + 50)⁰** and **(4x+20)⁰**. Find the value of **x**

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. *(2marks)*

n(€) = 60

n(G) =   n(P) =

_____ (12) _____

6
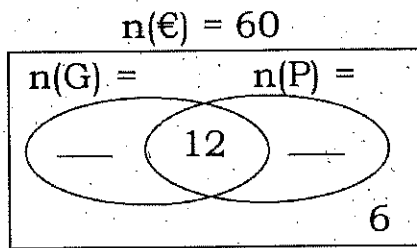
b. How many students like ground nuts?

(2marks)

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

(2marks)

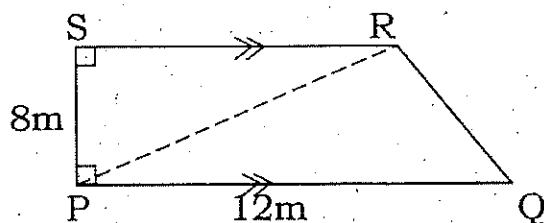**c.** Find the number of students who were served with one type of eats.

(1mark)

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22. **Complete the shopping bill table below.**   *(6marks)*

ITEM	UNIT PRICE	QUANTITY	AMOUNT
Bread	sh. 3,500 per loaf	2 loaves	sh. ....
Meat	sh. 10,000 per kg	.... kg	sh. 5,000
Rice	sh. .... per kg	1½ kg	sh. 6,000
Sugar	sh. 3,000 per kg	1.5kg	sh. ....
Milk	sh. 1200 per litre	2½ litres	sh. 3,000
Total expenditure			sh. ....

23.	Write **CDXLIX** in Hindu Arabic numerals.	b.	Find the sum of the place value of **4** and the value of **6** in the number: **435.16**
	(2marks)		*(3marks)*

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?

(5marks)

25. a.	**Simplify:** $\dfrac{0.12 \times 5.4}{0.03 \times 0.6}$	b.	Express **0.5454 ...** as a common fraction.
	(4marks)		*(2marks)*

26.	A bus left Kampala bus park at **8:30am** and reached Soroti at **1:00pm** a distance of **270km** apart.		
a.	How long did the bus take to reach Soroti ? *(2marks)*	b.	Calculate the speed of the bus in km/hr. *(3marks)*
27. a.	Write **955** in Roman numerals. *(2marks)*	b.	Nashed has **496** goats on the farm. Round off the number of her goats to the nearest tens. *(1mark)*
c.	**Workout:** $3 - 4 = p$ *(mode 5)* *(2marks)* 		

28.	The area of the figure below is **72m²**.

a.	Find the length of $\overline{\textbf{SR}}$.	(3marks)

b.	Workout the area of the triangle **RSP**.	(2marks)

29. a.	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 = 4.5cm**.	(5marks)

b.	Measure length **BC** in cm.	*(1mark)*

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)*

b.	How much money will he have at the end of the period?	*(3marks)*

31.	Solve for **m**:	
a.	$2(2m + 4) - 2(m - 2) = 6$	*(3marks)*

b.	Nakiku is three times as old as her son Kiku. In **5** years time, their total age will be **46** years.
	How old will Nakiku be in **8 years** time? (*3marks*)

32. a.	**Simplify:** $n^2 \times n$	b.	$m^6 \div m^2$
	(*1mark*)		(*2marks*)

c.	$\dfrac{a^2 \times a^5}{a^3}$	(*2marks*)

END