



**KASSANDA**

# **KASSANDA SEED JUNIOR SCHOOL**

**"AIM HIGHER"**

**P.O BOX 93 MITYANA- KASSANDA TOWN COUNCIL**

## **PRE MOCK SET 2 OF 8**

## **MATHEMATICS**

*Time allowed: 2 Hours 30 Minutes*

Random No.						Personal No.		

**CANDIDATE'S NAME:** .....

**CANDIDATE'S SIGNATURE:**.....

**DISTRICT NAME:**.....

**Read the following instructions carefully:**

- 1.This paper has **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 . all answers to both sections **A** and **B must** be written in the spaces provided.
- 5.**All** answers must be written using a **blue** or **black ball point pen** or **ink**. Diagrams should be drawn in a pencil.
6. **Unnecessary** changes in your work may lead to **loss** of marks.
7. Any handwriting that **cannot** be easily read may lead to **loss** of marks.
8. **Do not** fill anything in the table indicated:  
**" FOR EXAMINERS' USE ONLY"** and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No	MARKS	EXR'S No.
1 – 10		
11 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

**TURN OVER**

## SECTION: A (40 marks)

1.	Divide: 12 by 4	7.	A clan meeting started at 9:35a.m and ended at 11:45a.m. How long did it take?
2.	Subtract: 5.76 from 11.84	8.	Using a pair of compasses only, a ruler, and a sharp pencil only, construct an angle of <b>90°</b>
3.	Find the sum of the next two numbers in the series. 13, 10, 7, 4, _____, _____	9.	Find the supplement of $(280 - 2w)^\circ$
4.	Find the difference of the first three prime numbers.	10.	Raphael bought a set of computers at Ug.shs.1,825,000. If one US dollar costs shs.3650. How many US dollar did Raphael pay?
5.	Write three thousand thirty-three in figures.		
6.	Round off <b>21783</b> to the nearest hundreds.		

11. Use distributive property to workout;  
 **$(53 \times 76) + (56 \times 53)$**

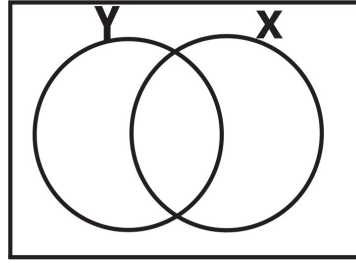
12. Ashiraf's daughter weighs **DCCC** grams.  
Change the weight in kilograms.

13. Solve and write the solution set for x.  
 **$8 \leq 2x < 12$**

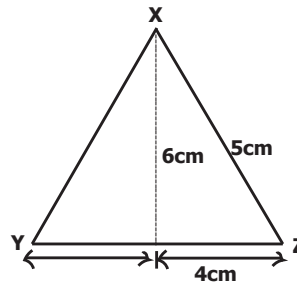
14. The LCM of two numbers is 120 and their  
GCF is 6. If one number is 30, find the  
second number.

15. Find the number expanded  
 **$(6 \times 10^3) + (9 \times 10^1) + (2 \times 10^0) + (3 \times 10^{-2})$**

16. In the Venn diagram below, shade  
 **$(X \cap Y)$**



17. Study the figure below and find the area  
where  **$XY = XZ = YZ = 8\text{cm}$** ,  **$WX = 6\text{cm}$** .



18. Simplify;  **$4x - 3y - 7x + 5y$**

19. Find the place value of **3** in the number **231**five.

20. The probability of picking a red pen is  **$\frac{3}{8}$**   
in a box. If there are 24 pens. Find the  
number of blue pens in a box.

## SECTION B: 60 MARKS

Answer **all** questions in **this** section.

Marks for **each** question are **indicated** in brackets.

21. Work out;  $\frac{2.4 \times 3.6}{0.72}$  (3 marks) (b) Change  $\frac{4}{9}$  as a recurring decimal. (2 marks)

22. Peterson bought the following items from Kireka Supermarket.

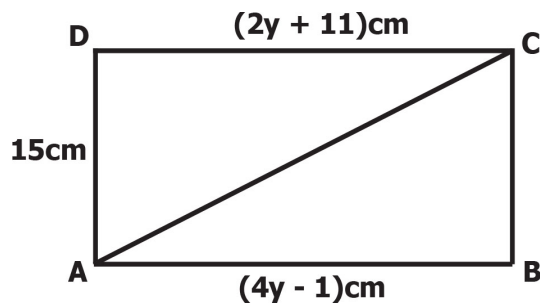
Item	Quality	Unit cost	Amount
Sugar	3kg	shs._____	shs.11400
Soap	4bars	shs.2500	shs.10,000
Bread	_____loaves	shs.5500	shs.22,000
Cassava flour	$2\frac{1}{2}$ kg	shs.3200	shs._____
EXPENDITURE			shs._____

- (a) Complete the table above. (4 marks)

- (b) If Peterson was given a change of shs.8600. How much money did he have at first?

(1 mark)

23. The figure below is an isosceles triangle. Use it to answer the questions that follow.



(a) Calculate the length in cm.

*(3 marks)*

(b) Calculate the distance around the figure.

*(2 marks)*

24.(a) With the help of a ruler, and a pair of compasses only, construct a triangle XYZ such that  $XY = 6.8\text{cm}$ , angle  $YXZ = 60^\circ$ ,  $XYZ = 45^\circ$ .

*(4 marks)*

(b) Measure the length YZ in cm.

25.(a) Solve :  $3^{14} = 9^{2k-1}$   
*(3 marks)*

(b) Given that  $a = -2$ ,  $b = c$  and  $c = 5$ . Find the value of  $\frac{ac + c}{b}$  *(2 marks)*

26. Two bells ring at different intervals of 30minutes and 40minutes respectively to change lessons in Buwenge Primary School.

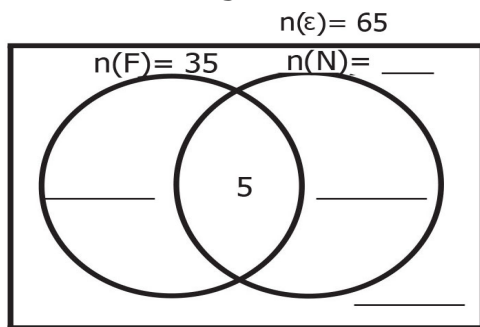
(a) After how many minutes did the bell ring altogether? (3 marks)

(b) If they rang at 11:00a.m. At what time will they ring altogether at the same time? (2 marks)

27.(a) In a class of 65learners, x enjoy netball(N), 35 learners enjoy Football, (F), 5learners enjoy both games and 7learners didn't enjoy any of the two games.

(a) Complete the Venn diagram below.

(3 marks)

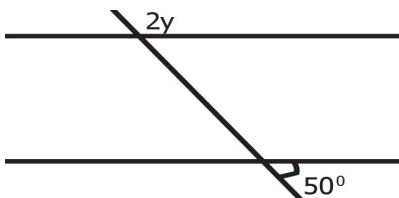


(b) Find the number of learners who enjoyed only one game?

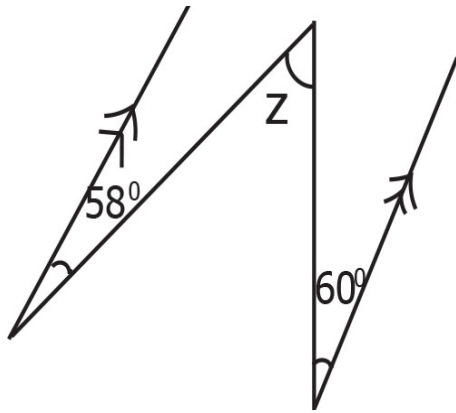
3 marks)

28.(a) In the diagram below, find the size of the unknown angles.

2 marks)



(b)



(2 marks)

29.(a) Find the sum of the two numbers whose scientific form is written as  $0.62 \times 10^2$  and  $4.62 \times 10^{-3}$

(3 marks)

(b) Expand 243 using exponents.

(2 marks)

30. Study the table below and use it to answer the questions that follow.

Marks	60	80	50	95	30	45
No. of pupils	5	4	2	2	3	3

(a) How many pupils sat for the test?

(1 mark)

(b) Find the range (1 mark)

(c) Calculate the average mark scored. (3 marks)

31. A taxi left Kampala at 4:45a.m and reached Tororo at 6:15a.m at a speed of 80km/hr. He rested in Tororo town for 30minutes. He turned to Kampala using the same way at a speed of 60km/hr.

(a) Calculate the distance of Tororo from Kampala.

*(2 marks)*

(b) Find the average speed for the whole journey.

*(3 marks)*

32. Aisha deposited shs.80,000 in DFCU bank for 4years at an interest rate of  $2\frac{1}{2}\%$ .

(a) Calculate her interest of  $2\frac{1}{2}\%$

*(3 marks)*

(b) How much money did she get after 4years?

*(2 marks)*