STANDARD HIGH SCHOOL – ZZANA
LINKED SCHOOLS EXAMINATION PROGRAMME

PRE-PRIMARY LEAVING EXAMINATION 2015
MATHEMATICS
2 HOURS 30 MINUTES

Index No.										

Candidate's Name: …………………………………………………………..……

Candidate's Signature: …………………………………………………..………

School Name: …………………………………………………………………….

District :……….. …………………………………………………………………...

Read the following instructions carefully:

1. This paper has **two** Section **A** and **B**.

2. Answer **all** questions. **All** answers to both Sections **A** and **B** must be written in the spaces provided.

3. **All** answers must be written using a blue or black ball-point pen or ink. Diagrams should be drawn in pencil.

4. **No** calculators are allowed in the examination room.

5. Unnecessary 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 anything in the boxes indicated **"For Examiners' Use Only"** and those inside the question paper.

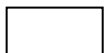| Qn. No.	Marks	Examiner's No.
1 – 5		
6 – 9		
10 – 14		
15 – 18		
19 – 22		
23 – 24		
25 – 27		
28 – 30		
31 - 32		
TOTAL		

SECTION A (40 MARKS)

1. Work out;

$$\begin{array}{r} 1\ 5 \\ +\ \ 4 \\ \hline \\ \hline \end{array}$$

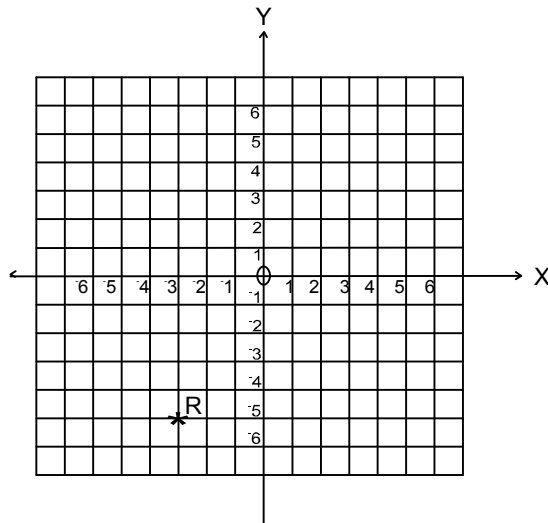2. Write CXLV in Hindu Arabic Numerals.

3. Given that $y = 2$ and $q = {}^-1$. Find the value of $y^3 - 2q$

4. Find the L.C.M of 7 and 15

5. Change 125 grammes into kilograms.

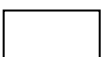6. (i) Write the co-ordinates of point R on the grid below.

(ii) Plot point Q(+2, +3)

7. Using a pair of compasses, a ruler and a pencil only construct an angle of 30^0

8. Simplify; $+4 - {}^-3$

9. Work out; $\dfrac{3}{4} + \dfrac{1}{5}$

10. I have 7 cartons of sweets in each carton there are 909 sweets. How many sweets are in seven cartons?

11. Given that; Set R = {2, 3, 5, 7, 11}   Set Q = {1, 3, 5, 7, 9, 11, 13}
Find; $\cap(Q - R)$

12. One U.S. Dollar costs Uganda shillings 2200. How many dollars can I buy with Uganda shillings 154,000/=

13. Find the total distance around a regular pentagon whose side is 5.4cm.

14. Find the value of m; $3 + 5 = m$ (finite 6)

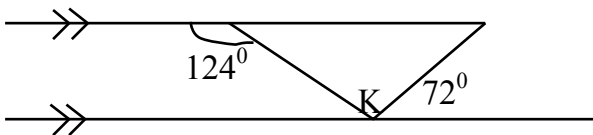15. The table below shows marks scored by pupils in a Mathematics test for a P.7 class.

Marks scored	70	60	50	40	80
Number of pupils	ЖНІ	ІІІІ	ЖН І	ІІ	ІІІ

How many candidates did the test?

16. Express 75 minutes as hours.

17. Work out 1011_{two} x 11_{two}
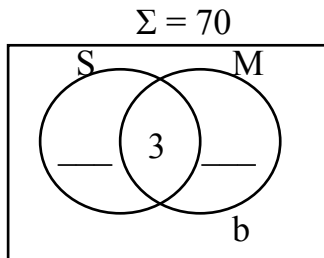
18. Find the value of K in the diagram.

19. Solve for y : $y = \dfrac{16}{y}$

20. What is the place value of 3 in the number 48.0539?

SECTION B (60 MARKS)

21. In a class of 70 pupils, 36 like Mathematics (M), 3 like both Mathematics and Science (S), b pupils like neither Mathematics nor Science while (b + 2) pupils like Science (S) only.

a) Complete the Venn diagram below. *(02 marks)*

$\Sigma = 70$

b) How many pupils did not like Science at all. *(03 marks)*

22. a) Find the value of r.
    $81 = 3^r \times 3^r$ *(02 marks)*

b) Solve; $3(3y - 1) - 6(y - 3)$ *(03 marks)*

23. A school truck full of sand weighs 28,000kg. The empty weight of the truck is 12,000kg.
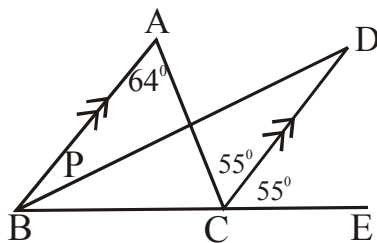
a) Find the weight of the sand. *(02 marks)*

b) Find the total weight of the truck when it is ¾ full of sand. *(02 marks)*

24(a) Find the value of P in the diagram below. *(03 marks)*
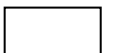

b) Find the size of the angle marked BCD *(02 marks)*

25. a) Find the product of the value of 1 and the place value of 2 in the number 1024

(03 marks)

b) Write the number above in Roman numerals.

(02marks)

26. Peter bought the following items.
    3kg of meat at shs. 9000 per kg
    7kg of Beans at shs. 1200 per kg
    2 ½ litres of cooking oil at shs. 1000 per litre.
    500 oranges at sh. 500 per heap of 100 oranges.
    Find the total expenditure.

(05 marks)

27. a) Using a pair of compasses, a ruler and a pencil only construct a triangle ABC
    such that AB = 6cm, angle ABC = 45) and line BC = 8cm.

(04 marks)

b) Measure angle BCA. *(01 mark)*

28. In a school there are 300 pupils. 3/5 are girls, 1/3 of the girls are in P.7 class and 1/4 of the boys are in P.7 class. How many more girls than boys are in P.7 class.

(05marks)

29. The area of a circle is $154cm^2$.
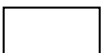Calculate the circumference of the circle (Use $\pi - \underline{22}$) *(05marks)*
$$7$$

30. a) Work out; $0.2 - (0.3)^2$ *(02 marks)*

b) Simplify; $\underline{1.2 \times 0.15}$
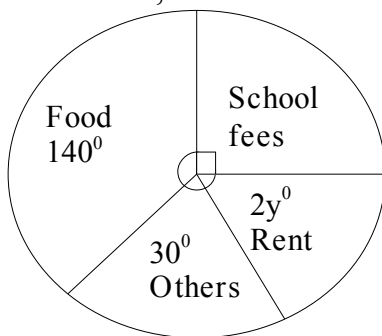$$2.4 \div 0.8$$ *(03 marks)*

31. A bus from Kampala reached Iganga at 3.20p.m. If the journey took 100 minutes.
    a) At what time did the bus leave Kampala? *(02 marks)*

    b) If Iganga is 150km from Kampala. Calculate the average speed in metres per second. *(03 marks)*

32. The Pie-Chart below shows how a man spends his monthly salary of shs. 360,000.

    a) Find the value of Y in degrees. *(03 marks)*

    b) How much more money was spent on food than rent? *(03 marks)*