STANDARD HIGH SCHOOL – ZZANA
LINKED SCHOOLS EXAMINATION PROGRAMME

PRE-PRIMARY LEAVING EXAMINATION 2017
MATHEMATICS

2 HOURS 30 MINUTES

Index No.									

Candidate's Name: ……..…..……

Candidate's Signature: ……..……

School Name: ……

District :…….. ……...

FOR EXAMINER'S USE ONLY

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 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION A (40 MARKS)

Answer all questions in this section

Questions 1 to 20 carry two marks

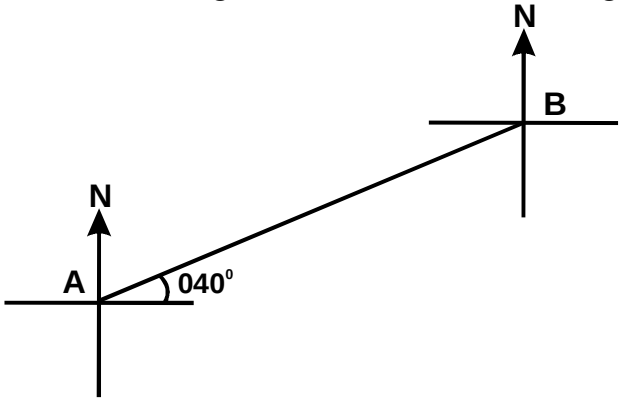
1. Work out; 2022 – 222

2. If x – 2 = 9. Find the value of x.

3. Write "Two hundred forty thousand five in figures.

4. What is $\frac{3}{4}$ of – 24?

5. In the figure below, find the bearing of A from B.



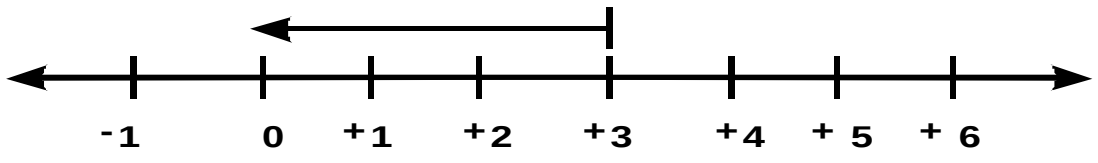
6. Find the sum of prime numbers less than 10.

7. The L.C.M of x and y is 36 and their G.C.F is 6. If x = 18. Find the value of Y.

8. Subtract 16 – 1.6

9. Find the complement of $(40 + y)^0$.

10. What integer is shown on the number line below?



11. Boda Boda Motor Cyclists were in a line such that the Platinum was the 11^{th} from either side of the line. How many Motor Cycles were in line?

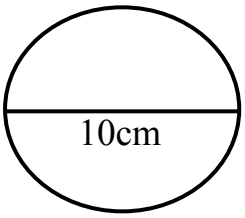
12. Simplify; $1\frac{1}{4} \times \frac{2}{5}$

13. The average weight of 3 girls is 45 kg. What is the total weight of the 3 girls.

14. Solve: $2(x + 1) - 3x = 1$

15. The total cost of a book and a pencil is shs. 1050. If a book costs sh. 450 more than a pencil. Find the cost of a book.

16. Calculate the area of the circle below. (Take $\pi = 3.14$)

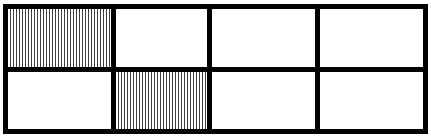


17. Round off 390.43 to the nearest tenths.

18. Work our:

Kg	gm
4	250
– 2	900

19. What percentage of the figure below is shaded?



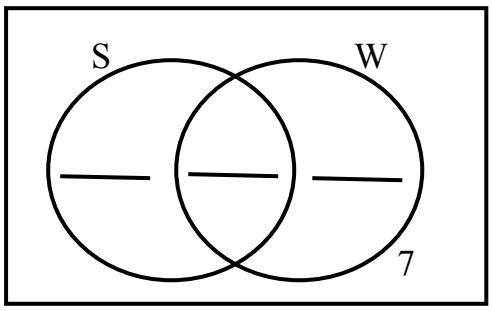
20. Solve for y: $5^y \div 125 = 1$

SECTION B (60 MARKS)

21. At a birth day ceremony attended by 64 guests, 22 guests took Soda (S) only 19 took Water (W) , 7 guests did not drink anything and x guests took both Sodas and Water.

a) Complete the Venn diagram below. (3marks)

$n(\sum) = 64$



b) How many guests took both Water and Soda? (2marks)

c) Find the probability of picking a guest who took Water at random. (1mark)

22. a) Simply : $\dfrac{14.4 \times 3.6}{0.4 \times 0.12}$ (3marks)

b) Work out:

$1\frac{1}{2} + \frac{1}{4} \div \frac{1}{2}$ of $\frac{1}{3}$ (3marks)

23. The table below shows the size of shoes worn by pupils in P.7 at City Parents Primary School.

Size of shoes	6	8	5	7
No. of Pupils	20	14	12	14

a) How many Pupils are in P.7 at City Parents Primary School? (2marks)

b) Work out the range size of shoes they wear. (2marks)

c) Find their modal size. (1mark)

24. a) Solve and give the solution set.

$-3 \leq 2y + 1 < 5$. (3marks)

b) Given that a = 6, b = 4 and C = $^2/_3$

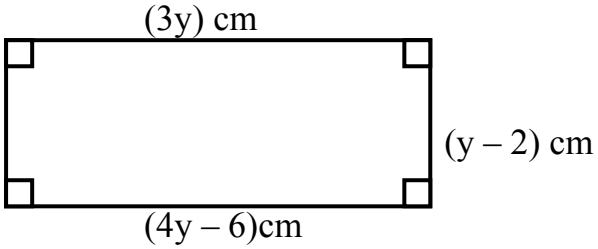
Find the value of $\frac{a\ c.}{b}$ (2marks)

25. Musoke had 30 bulls, he sold $^1/_6$ of them and slaughtered $^3/_5$ of the remainder.

a) How many bulls did he slaughter? (3marks)

b) Find the number of bulls Musoke remained with. (2marks)

26. The diagram below is of a rectangle.



a) Find the value of y. (2marks)

b) Find its;

(i) Length (1mark)

(ii) Width (1mark)

c) Calculate its perimeter. (2marks)

27. A cyclist started a journey at 7:20a.m. and travelled at a speed of 16km/hr for 2½ hours and rested from 1 hour. He again covered the rest of the journey in 2½ hours at 20km/hr.

a) What distance did he cover? (3marks)

b) At what time did he complete the journey? (2marks)

28. a) Given the number 420.53. Write it in standard form. (2marks)

b) Subtract the value of 5 from the value of 2 in question (a). (2marks)

29. a) Using a ruler and a pair of compasses, construct a rhombus PQRS where SR = 6cm and angle QRS = 120^0

(4marks)

b) Measure diagonal PR. (1mark)

30. The mean of three consecutive odd numbers is 25. Find their range.

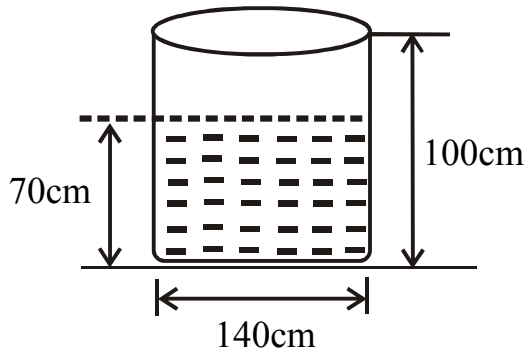
(4marks)

31. A trader sold a bag at shs. 19,500 and made a loss of shs. 6,500.

a) What was the cost price of the bag? (2marks)

b) Express the trader's loss as a percentage. (2marks)

32. The diagram below shows a water tank study it and answer the questions below.



How many litres of water should be added to fill the tank? (5marks)

(Take $\pi = \frac{22}{7}$)

END