



**STANDARD HIGH SCHOOL – ZZANA
LINKED SCHOOLS EXAMINATION PROGRAMME**

**PRE-PRIMARY LEAVING EXAMINATION 2018
MATHEMATICS**

2 HOURS 30 MINUTES

Index No.									
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Candidate's Name:

Candidate's Signature:

School Name:

District :.....

Read the following instructions carefully:

FOR EXAMINER'S USE ONLY

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 – 29		
30 – 31		
32		
TOTAL		

Turn Over

SECTION A (40 MARKS)
Answer all questions in this section
Questions 1 to 20 carry two marks

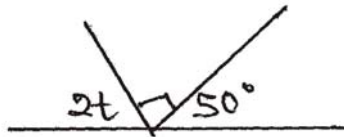
1. Work out $69 \div 3$

2. Write 'Forty two thousand, forty two' in figures.

3. Given that Set $P = \{1, 2, 3, 4\}$ $T = \{0, 2, 4, 6, 8\}$. Find $n(T - P)$

4. Work out $3 - 5 =$ (finite 7)

5. Find the value of $2t$ in the figure below.

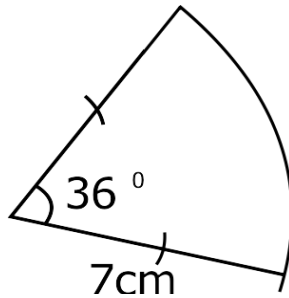


6. Work out $-8 - 3$
7. Mary covered $66\frac{1}{3}\%$ of her journey by car and the remaining percentage by Boda. Find the percentage covered by Boda.
8. Convert 0.086Hg into grammes.
9. Find the next number in the sequence
II, IV, VI, VIII _____, _____
10. A motorist moved at a speed of 60km/hr for 45 minutes. Find the distance covered.

11. Round off 6.99 to the nearest tenths.
12. A girl facing South-East turns anti-clockwise through a right angle. Find her new direction.
13. Using a pair of compasses, ruler and a sharp pencil, construct an angle of 105° .
14. Find the number whose standard form is 2.45×10^{-1}
15. The cost of three trays of eggs is Shs. 24000. Find the cost of 5 similar trays.

16. Multiply $12_{\text{five}} \times 14_{\text{five}}$

17. Calculate the distance around the figure below.



18. A Forty five minute lesson ended at 12:20p.m. At what time did it start?

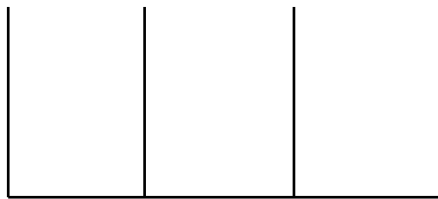
19. Given $t = 4$, $P = 3t$. Find the value of $2t + 4p$.

20. Policemen are standing on a straight line, Bosco is the 7th and 12 from either side. How many Policemen are on the line?

SECTION B

21. a) Workout the product of the place value of 4 and value of 2 in the number 3402 (2marks)

- b) Represent 4063 on the abacus below. (2marks)

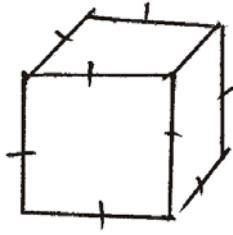


22. a) A patient is required to take 0.15ml of drugs three times a day. How many days will the patient take to complete a bottle of 1.8ml. (2marks)

- b) Work out $\frac{1}{2} - \frac{3}{4} + \frac{5}{8}$ (2marks)



23. The area of 2 faces of a square based prism is 50cm^2 .
Find the length of each side.

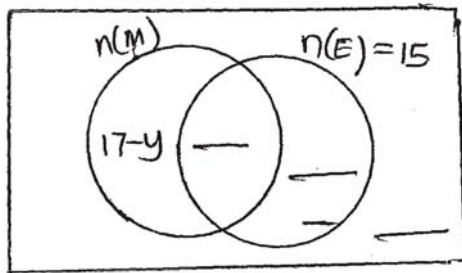


(3marks)

- b) Calculate the volume of the figure.

(2marks)

24. In a class, $(17 - y)$ pupils like Maths only (M) $(y + 2)$ like both Math and English, $(3y + 1)$ pupils like English only while $(2y - 4)$ like neither of the two subjects. Complete the Venn diagram using the above information. (3marks)



- b) Find the value of y .

(2marks)

25. a) Construct a triangle PQR such that $\angle PQR = 120^\circ$ $QR = 5\text{cm}$ $PQ = 4\text{cm}$

b) Drop a perpendicular from P to meet line QR at Point T.

Measure line PT

26. The table below represents the number of students who sat for a test.

Mark	50	M	70	85
Number of students	1	3	4	2

a) How many students sat for the test?

b) Given the mean mark is 67, find the value of M.

c) How many students scored above the mean mark?

27. Trucks A and B on a construction firm delivering sand at intervals of 40minutes and 50 minutes respectively.
- a) After how long do the trucks deliver at the same time?

- b) If they last delivered together at 10:40a.m, at what time had they previously delivered the sand?

28. a) Simplify: $4k - (3 + k)$ (2marks)

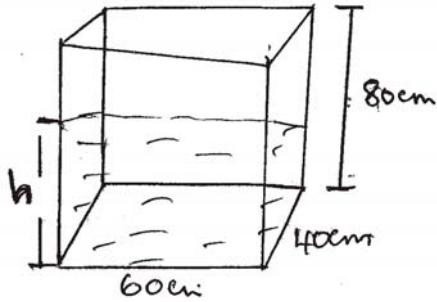
- b) Given that $d^2 + d^2 = 112_{\text{five}}$, find the value of d. (3marks)

29. a) Find the value of P in: $\frac{P+3}{3} + \frac{P-1}{2} = 3$ (3marks)

- b) Solve the inequality $2y - 3(y - 2) < 1$ (2marks)



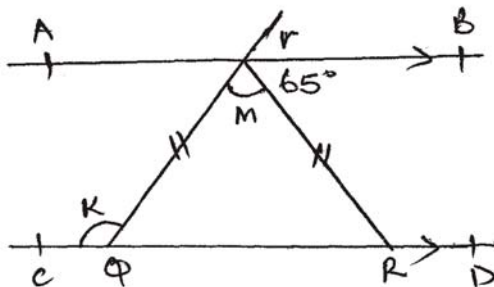
30. The water tank below is currently holding 120 litres



a) Find the value of h . (3marks)

b) How many litres of water is needed to fill the tank? (2marks)

31. In the figure below AB is parallel to line CD . Study it carefully.



a) Find the value of the angles marked.

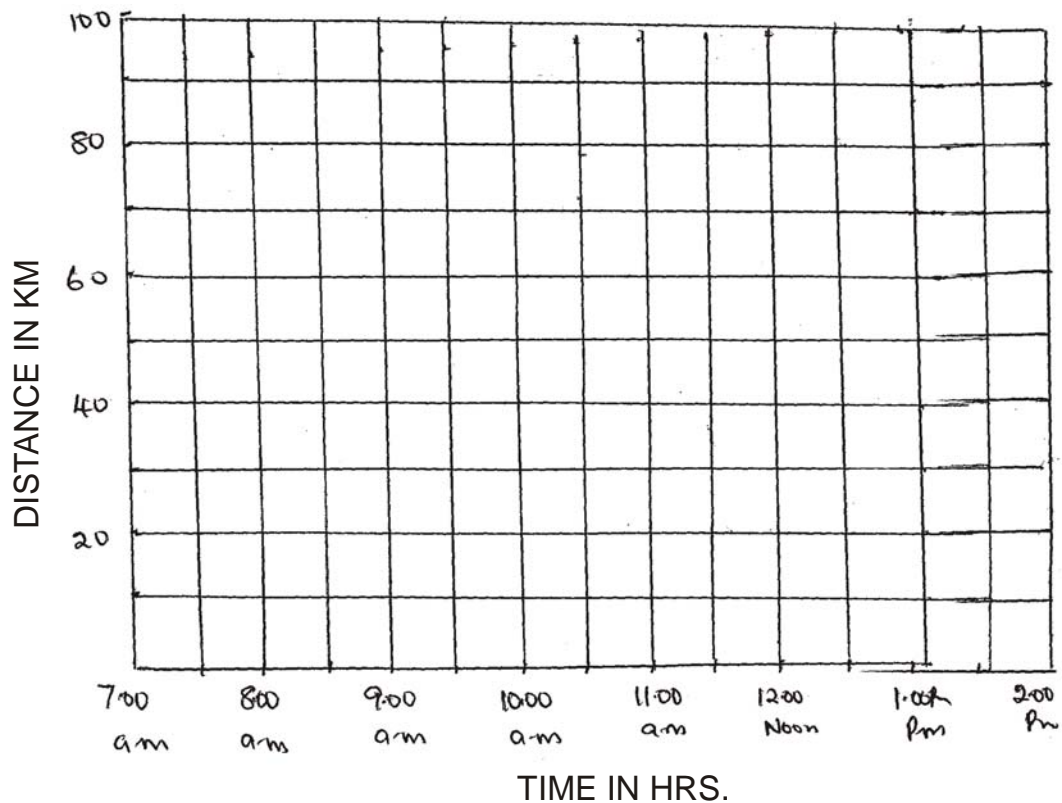
i) M (2marks)

ii) K (1mark)

b) Find the supplement of $(2x + 30^\circ)$ (2marks)

32. Phillip left Town P at 7:00a.m. and rode his bike at a speed of 30km/hr for one hour to town Q. He rested at Town Q for 30 minutes and then continued to Town R at a speed of 40km/hr for 1 ½ hrs. At point R he rested for 30 minutes and then rode back to Town P at a steady speed of 30km/hr.

- a) Show Phillips journey on the graph (6marks)



(3marks)

- a) At what time did Phillip arrive Town R? (1mark)

- b) Calculate the average speed for the whole journey. (2marks)