GREATER BUIKWE DISTRICT EXAMINATION COMMITTEE

MOCK ASSESSMENT 2023

Primary Seven MATHEMATICS

Time Allowed: ***2hours 30 Minutes***

RANDOM NO.						PERSON NO.		

Candidate's Name: .....

Candidate's Signature: .....

DISTRICT ID NO: | | | | |

Do not open this booklet until you are told to do so.

Read the following instruction carefully:

1. The paper has two Sections: **A** and **B**
2. Section **A** has 20 short 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 spaces provided.
5. All answers must be clearly written using blue ball point Pen or ink. Only diagrams should be drawn in pencils.
6. Unnecessary changes of work may lead to loss of marks.
7. Do not fill in the boxes indicated **"For examiner's use only".**

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

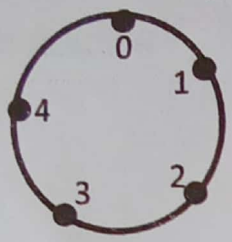
Turn Over

SECTION A

1. Workout: $53 + 36$

2. Write 90,019 in words.

3. Workout: $3 - 4\ (finite\ 5)$ using a dial below

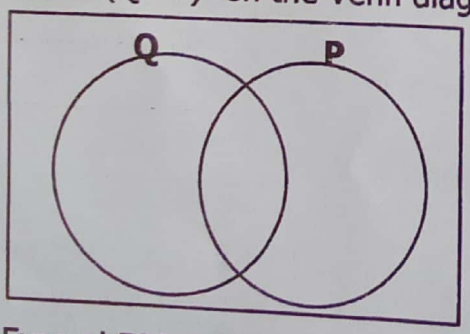


4. Circle all the composite numbers in the list below:

   3, 5, 7, 9, 11, 15.

5. Solve the equation; $2 - 7n = 23$

6. Shade $(Q - P)^1$ on the Venn diagram below



7. Expand 506.4 using powers of ten.

8. The price of sugar was increased by shs.1400 to shs. 5400. Find the percentage increase.

9. Change $0.25m^3$ to cubic centimetres.

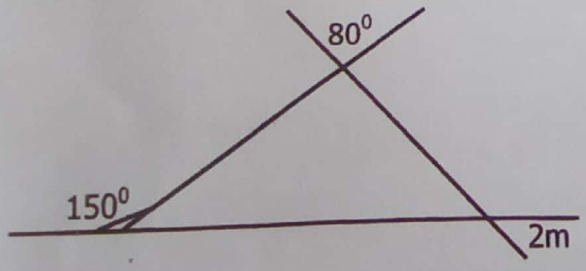
10. A meeting that lasted $1\frac{1}{4}$ hrs ended at the morning time shown on the clock face below. At what time did the meeting start?

11. A cup was $\frac{2}{3}$ full of milk and $\frac{3}{5}$ of the milk poured. Find the fraction of the milk that remained in the cup.

12. Write the place valve of 4 in the number 143_{five}

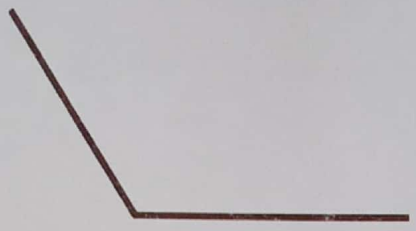
13. A dice is tossed once. What is the probability of a triangular number appearing on top?

14. Study the figure below and use it to find the value of m in degrees.



15. What must be subtracted from $5y - 3$ to get $2y + 2$?

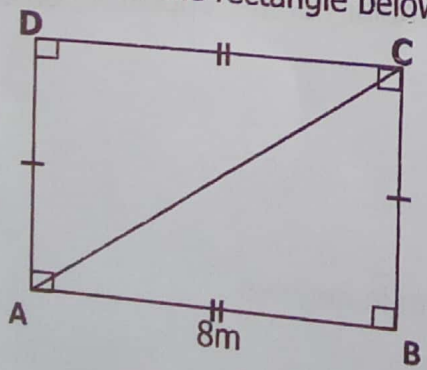
16. Bisect the obtuse angle below:



17. If $\frac{3}{4}kg$ of sugar cost shs.3900, find the cost of $1\frac{1}{2}kg$ of sugar.

18. A compound can be cleaned by 3 boys in 20 minutes. How many boys working at the same rate can clean the same compound in 12 minutes?

19. The area of the rectangle below is $48m^2$. Study it carefully and answer the question



Find the length of diagonal AC

24. A motorist left town A at 6:20am travelling at a speed of 50km/hr. for $1\frac{1}{2}hrs$ to town B. he rested for 30 minutes and continued to town C a distance of 120 km at a speed of 40km/hr.

a) At what time did the motorist reach town C? (3marks)

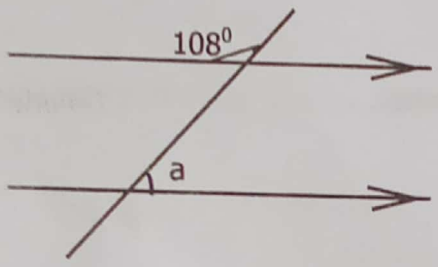
b) Workout the motorist's average speed for the whole journey. (3marks)

25. Give that m=4, n= m+2 and p=n-m. Find the value of $\frac{p2(n-m2)}{5}$ (4marks)

b) Give the solution set for $-3 < P \leq 2$ (1mark)

26. a) The exterior angle of a regular octagon is $(3m - 15^0)$. Find the valve of m in degrees (3 marks)

) Find the valve of a in degrees in the figure below. (2 marks)



7. In a school there are 150 pupils in P.7 and 105 pupils in P.6. If each pupil is served 2 eggs daily. How many eggs are served each day? (2 marks)

b) If each tray of eggs costs sh.10, 500, how much money does the school spend on eggs each day? (2 marks)

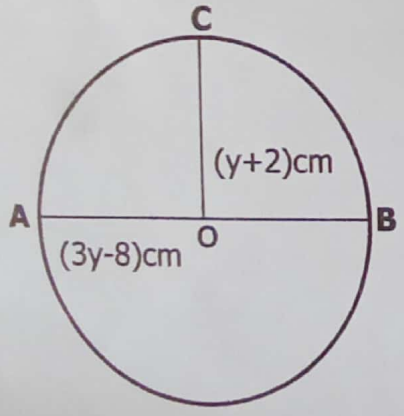
28. Lukwago had $\frac{3}{5}$ of his salary and spent $\frac{1}{4}$ of it on drinks and saved the rest. If Lukwago saved sh.450,000, find his monthly salary. (2 marks)

29. The average of $x+2, 5, 7$ and 3 is $x-1$

a) Find the valve of x (2 marks)

b) Workout the median of the numbers (1mark)

30. The figure below is a circle, 0 is the center of the circle. Line AB= (3y–8) cm and OC=(y+2) cm. study it carefully and answer the questions that follow.



Workout the area of the circle ($take\ \pi = \frac{22}{7}$) (5 marks)

31. In a quiz of 20 questions 3 marks are a warded for every correct answer and a mark is deducted for every wrong answer.

a) How many marks will a candidate who fails 6 questions get? (2marks)

b) If Samuel got 32marks, how many questions did Samuel pass? (3marks)

32. A ship leaves port H and sails for 200km to port G on a bearing of 065^0. It then sails for 120km to port J on a bearing 315^0.

a) Draw a sketch to show the journey of the ship (1mark)

b) Using a scale of 1cm to represent 20km.draw an accurate diagram to show the journey of the ship. (4 marks)

c) Find the shortest distance from port H to port J in kilometers (km) (1 mark)

***END ***