



THE REPUBLIC OF UGANDA

# TAAND EXAMINATIONS BOARD

## PRE-PRIMARY LEAVING EXAMINATION, 2022

### PRIMARY SEVEN

### MATHEMATICS *(Abridged Curriculum)*

*Time Allowed: 2 hours 30 minutes*

Random Number						Personal Number		

Candidate's Name: .....

Candidate's Signature: .....

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

Read the following instructions carefully:

1. This paper is made up of **two** Sections: **A** and **B**.
2. Section **A**, has **20** short-answer questions (**40 marks**) and Section **B** has **12** questions (**60 marks**)
3. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a blue or black ball - point pen or fountain pen. Only diagrams should be done in pencil.
5. No calculators are allowed in the examination room.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the boxes indicated "For examiners' use only"

FOR EXAMINER'S USE ONLY		
Qn. No.	Marks	Exrs' 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 section A. Each question carries 2 marks.**

1.  $43 \times 3$

2. Write 20,022 in words.

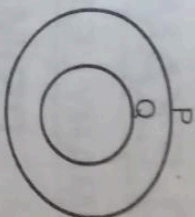
3. Find the next number in the sequence:  
 1, 8, 2, 7, 6, 4, \_\_\_\_\_

4. Solve for P:  $\frac{3P}{5} - 4 = 8$ .

5. Express 0.0207 in standard form

6. Write 10 : 30am in the 24 hour clock system.

7. In the diagram below shade PNO.



8. Workout:  $5 + 3 = \dots\dots\dots$  (finite 7)

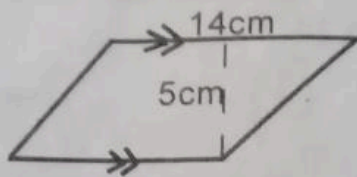
9. Simplify:  $3p + 4k - 8p + 3k$ .

10. Using a ruler, a pair of compasses and a pencil only, construct an angle of  $75^\circ$ .

11. Gideon took 30 minutes riding a motorcycle from his home to the market at a steady speed of 60km/hr. How far is the market from his home?



12. The figure below is of a parallelogram. Calculate its area.



13. Given that  $a = 3$  and  $b = -2$ , find the value of  $a^2 - b^3$ .

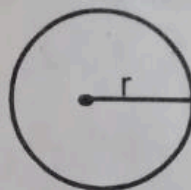
14. 3 bars of soap cost sh.10,500/=. Find the cost of 5 bars of soap at the same rate.

15. One hundred tree seedlings are planted along a side of the road. The tree seedlings are spaced at an interval of 10 metres. Calculate the length covered by tree seedlings.

16. Express  $1101_{\text{two}}$  to base ten.

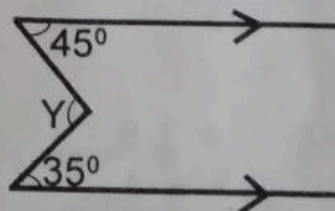
17. Given that 3 workers can build a road in 20 days. How many workers working at the same rate can build the same road in 12 days?

18. The circumference of the circle below is 44cm. Find the radius (Take  $\pi = \frac{22}{7}$ )



19. In a school, the ratio of girls to boys is 4:5 respectively. If there are 180 boys, how many pupils are in a school?

20. Find the size of angle marked Y in the diagram below.



SECTION B: (60 Marks)

Marks for each question are indicated in the brackets.

21. The median of 4 consecutive odd numbers is 14.

(4marks)

(b) Find the numbers.

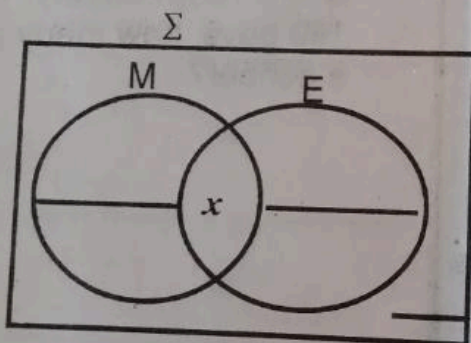
(b) Work out their range.

(3marks)

22. In a class, 32 pupils like English only  $n(E)$ ,  $x$  pupils like both English and Mathematics  $n(M)$ ,  $(2x-10)$  pupils like Mathematics but not English while  $(x-2)$  do not like any of the two subjects.

(a) Use the information above to complete the venn diagram below.

(3marks)



(b) Given that 62 pupils like one subject, find the value of  $x$ .

(2marks)

23. (a) Workout:

$$\begin{array}{r}
 436 \\
 + 143 \\
 \hline
 \end{array}$$

seven  
seven

(2marks)



(b) Given that  $34n = 201_{\text{five}}$ . Find the value of  $n$ .

(3marks)

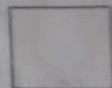


24. Olupot went to the market and bought the following items;  
3litres of milk at sh.2400 per litre.  
500g of salt at sh.1200 per kg.  
18 oranges at sh.2000 for every 6 oranges.

(a) Calculate the total cost of the items.

(4marks)

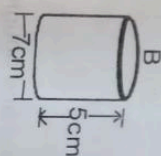
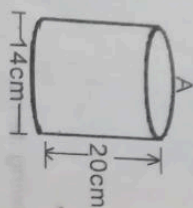
(b) How much did he pay if he was given a cash discount of 5%? (2marks)



25. (a) Convert 0.443 to a common fraction in its lowest terms. (3marks)

(b) Simplify:  $\frac{0.042 \times 0.18}{0.9 \times 0.03}$  (3marks)

26. Below are two cylindrical tins. Tin A is full of cooking oil, while Tin B is an empty tin used for measuring and selling cooking oil in A by a trader.



- (a) How many tins of size B can be filled with all the cooking oil in tin A?  
(Take  $\pi = \frac{22}{7}$ ) (4marks)

- (b) If each tin B costs sh.5000/=, How much money did the trader make? (2marks)

27. The ratio of an exterior angle to an interior angle of a regular polygon is 2:7 respectively.

- (a) Find the size of the interior angle.

(2marks)

- (a) Name the polygon.

(2marks)

28. A shirt costs  $\frac{1}{3}$  the cost of a pair of trousers while a vest costs  $\frac{1}{2}$  the cost of a shirt. If their total cost is sh.54,000, what is the cost of each item? (4marks)

29. Town B lies at a bearing of  $135^\circ$  from town A which is 10km away.  
Town C is located at the bearing of  $270^\circ$  from town B at a distance of 8km.  
(a) Using a scale of 1cm = 1000metres, represent the three towns in the space below. (4marks)

- (b) Find the shortest distance between town A and town C. (2marks)

30. Tap A can take 5 hours to fill an empty swimming pool while Tap B can take 7 hours to fill the same swimming pool.

- (a) How long will the two taps take to fill the swimming pool if they are opened at the same time? (2marks)

- (b) If they are opened at 10:30am, at what time will they complete to fill the swimming pool? (2marks)

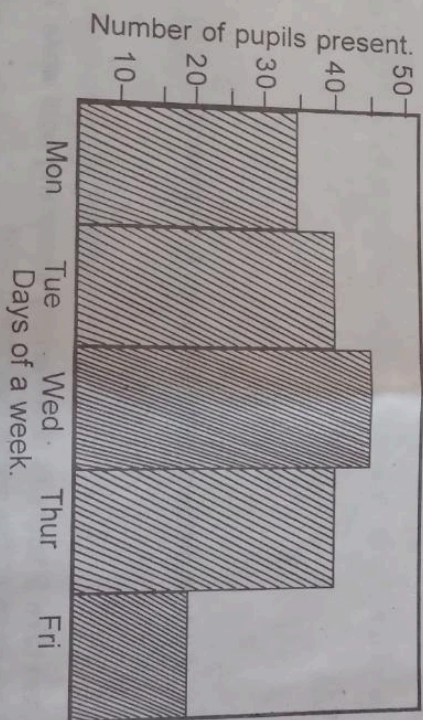


31. A woman borrowed a loan from the village Sacco which charges an interest rate of  $2\frac{1}{2}\%$  per month. After 2 years, she paid an interest of sh.360,000 to the Sacco.

(a) How much money did she borrow from the Sacco? (2marks)

(b) Find the total amount of money that she paid back to the Sacco. (2marks)

32. The graph below shows the attendance of pupils in a P.7 class of 50 candidates in one week. Use it to answer questions that follow.



(a) How many pupils were absent on Monday? (1mark)

(b) Which two days registered the same attendance? (1mark)

(c) Find the average number of pupils who attended the school throughout the week. (2marks)

\*\*END\*\*