



NORTH ANKOLE DIOCESE EDUCATION DEPARTMENT PRE-PRIMARY LEAVING EXAMINATIONS 2022



MATHEMATICS

Time allowed 2 hours 30 minutes

Index No.:

Random No.						Personal No.		

Candidate's Name:

School Name:

Archdeaconry:

Read the following instructions carefully.

1. This paper has two sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions (**60 marks**)
2. All the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will not be marked
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 be easily read may lead to **loss of marks.**
7. Do not fill anything in the boxes indicated: "**For Examiner's Use Only**" and those inside the question paper.

"FOR EXAMINER'S USE ONLY"		
Qn. No.	MARKS	EXR'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. (20 Questions 40 Marks)

1. Work out: $84 \div 4$.

2.

Write the place value of 4 in the numeral 8,406,917

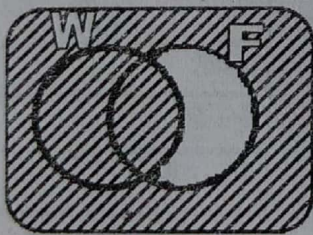
3. Workout: $3 \div 4 = (\text{Mod } 5)$

4.

Write CIX in Hindu Arabic numerals.

5. In the Venn diagram below, describe the shaded region.

Σ



6.

Add:

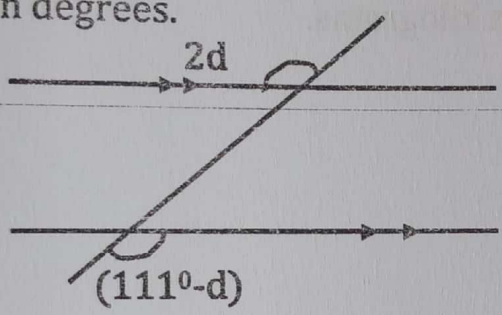
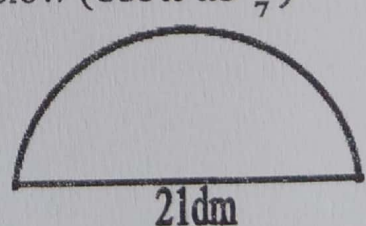
$$\frac{5}{9} + \frac{5}{6}$$

7. Change 300_{five} to denary base.

8.

Find the next number in the sequence.

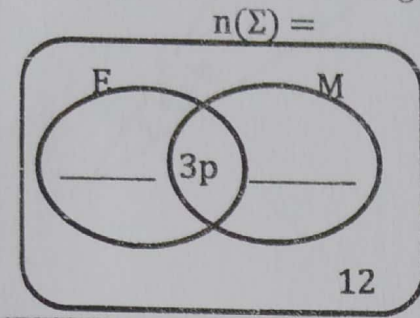
-10, -6, -2, _____

<p>9. Find the number which has been expanded; $(9 \times 10^3) + (7 \times 10^1)$</p>	<p>10 The profit on a skirt sold at sh. 10,000 was sh. 2500. Calculate the cost price of the skirt.</p>
<p>11 In the diagram below, find the value of d in degrees.</p> 	<p>12 A symposium started 3:30pm and lasted for $1\frac{5}{6}$ hours. At what time did it end?</p>
<p>13 Find the sum of the 4th square number and 3rd triangular number.</p>	<p>14 Find the distance around the shape below (Use π as $\frac{22}{7}$)</p> 

15	4 boys can use 15 days to clear a farm. How many boys working at the same rate can clear the farm in 10 days?	16	Solve for m: $7 - 2m \geq 5$
17	Decrease 4000 by $2\frac{1}{2}\%$	18	Richard bought 12 sachets of glucose each weighing 250grams. Find the weight of the glucose Richard bought in kilograms.
19	There are 13 boys and 17 girls in a P.7 class. Find the probability of randomly selecting a boy to be the class representative.	20	Using a ruler, a pencil and a pair of compasses only, construct an angle of 135° in the space below.

SECTION B. (60 MARKS)

- 21 In a P.7 class, 35 pupils like Mathematics (M), 2p pupils like English (E) only, 3p pupils like both subjects while 12 pupils hate the two subjects. (02marks)



- b) If the number of pupils who like both subjects is equal to the number of those who hate the two subjects, find the value of P. (02marks)

- c) How many pupils like English? (01mark)

- 22 (a) Write 0.0768 in scientific form. (02mks)

(b) Express 784 as a product of its prime factors.

(02marks)



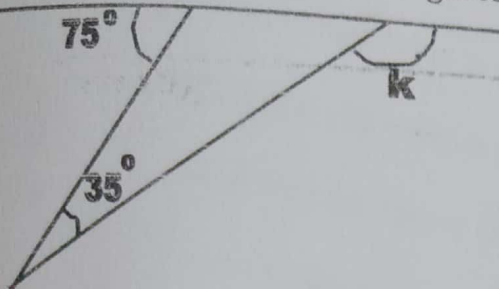
- 23 A motorist drives his car at a speed of 60km/hr covering a distance of 165km.
(a) How long does the journey take the motorist? (02marks)

(b) If the motorist starts his journey at 11:45am, at what time does he end it?
(03marks)

24

(a) Find the size of angle k in degrees.

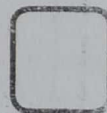
(03marks)

(b) Name the regular polygon whose each exterior angle measures 36° (02marks)

25

(a) Write $0.4242\dots$, as a simplified vulgar fraction.

(02marks)



(b) Simplify: $\frac{0.4 + 0.04}{0.21 - 0.1}$

(03mks)

21

- 26 Ashaba prepared 100litres of lemonade and packed it in sackets of 500ml and 250ml respectively. If he packed 80 sackets of 250ml each,
(a) How many litres did he use to pack in these 80 sackets? (02marks)

(b) If the remaining lemonade was packed in sackets of 500ml each, how many sackets of 500ml did Ashaba pack? (03marks)

The exchange rates in a bank are as follows:

1 US dollar (\$) = Ugsh 3500

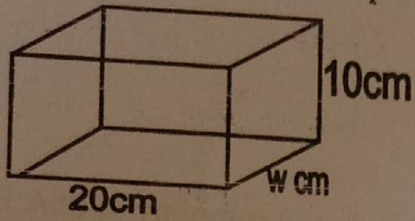
1 Great Britain Pound (£) = Ugsh 4700

1 Kenya shilling (Ksh) = 32

(a) Bamwine earns 179,000 Uganda shillings per day in company in USA. How much is this in US dollars? (02marks)

(b) Arafat bought a phone worth 120 great Britain pounds. How much in Kenya shillings did Arafat pay? (03marks)

- 28 The capacity of the rectangular prism below is 3 litres. Answer the questions that follow.



- (a) Find the length of its width (w).

(03marks)

- (b) Calculate its total surface area (T.S.A)

(03marks)



- 29 In a class, $\frac{4}{5}$ of the pupils like Mathematics and $\frac{2}{3}$ of the remainder like English and 5 pupils like Science. How many pupils are in the whole class?

(05marks)

- 0 Using a ruler, a pencil and a pair compasses only.
- (a) Construct a parallelogram EACH where $EA = 7\text{cm}$, $AC = 4\text{cm}$ and angle $EAC = 60^\circ$. Drop a perpendicular line from point C to meet line EA at T. (05marks)

(b) Measure length CT.

(01mk)



- 31 A blouse cost half as much as a flask. A flask costs sh. 4000 more than a trouser. If the total cost of the three items is sh 56,000 find the cost of the blouse. (04marks)

32

The table below shows the marks of P.7 pupils in a Science test.

(03mks)

a) Complete the table below.

Marks (%)	Pupils	Total marks
70		420
_____		860
60	_____	180
Total marks		_____

b) How many pupils are in P.7 class?

(01mark)

c) Find the range of the scores.

(01mark)