UGANDA MUSLIM TEACHERS' ASSOCIATION
UMTA JOINT MOCK PRIMARY LEAVING EXAMINATIONS 2022
MATHEMATICS

2 HOURS 30 MINUTES

INDEX NUMBER									

NAME...SIGN................................

SCHOOL...

Instructions to candidates:

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

- The paper has two Sections **A** and **B**.

- Answer all questions sections **A** and **B** in the spaces provided.

- All answers must be written in Blue or Black pen or Ink.

- Unnecessary changes (crossings) or alternation of answers may lead to loss of marks.

- Any handwriting that cannot easily be read may lead to loss of marks.

- The use of calculators or other mathematical tables is not allowed.

- Do not fill anything in the boxes indicated for "Examiners use only".

FOR EXAMINERS' USE ONLY

QN.	MARKS	INITIAL
SECA		
1 – 05		
06 – 10		
11 – 15		
16 – 20		
SEC B		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION A (40 MARKS)

1) Work Out   2   2

            <u>× 3</u>

          <u>   </u>

2) Write " Fifty eight thousand, forty four" in numerals

3) Simplify: $4a - 5b - a + 7b$

4) Simplify: $-7 - {}^-12$

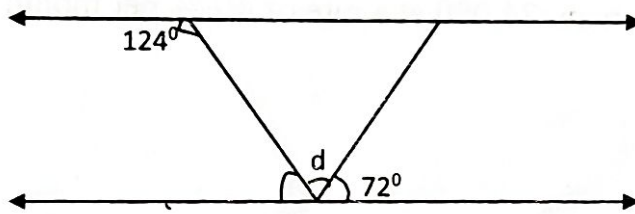5) A covid – 19 meeting ended at 7:15 pm after taking $2\frac{3}{4}$ hours, at what time did : bbegin?

6) A shop keeper sold a radio at sh. 35,200 and made a loss of sh. 4,800. Find the cost price of the radio.

7) Simplify: $\frac{8}{13} \div \frac{4}{39}$

8) A motorist traveled 150 Km in 75 minutes, find the speed of the motorist in kilometers per hour.

9) Simplify 0.25 × 0.4
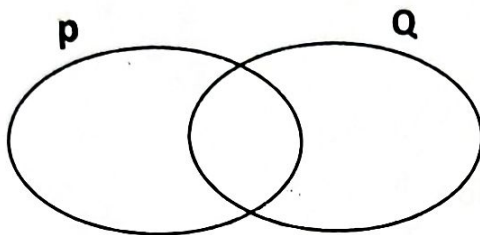
10) Find the value of d in the diagram below

11) Work out (72 ×4) – (4×48)

12) Find the median of the following numbers   1, 5, 2, 4, 0 and 6

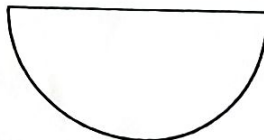13)   Find the greatest common factor (G.C.F) of 27 and 36

14)   Shade either set Q or set P

p   Q

15)   Find the simple interest on sh. 24,000 at a rate of $4^1/_2\%$ per month for three months.
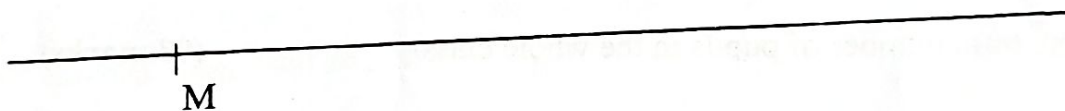
16)   Solve the inequality: $9 \leq -3(m-1)$

17)   The perimeter of the figure below is 36cm. find its diameter *(use $\pi = \frac{22}{7}$)*

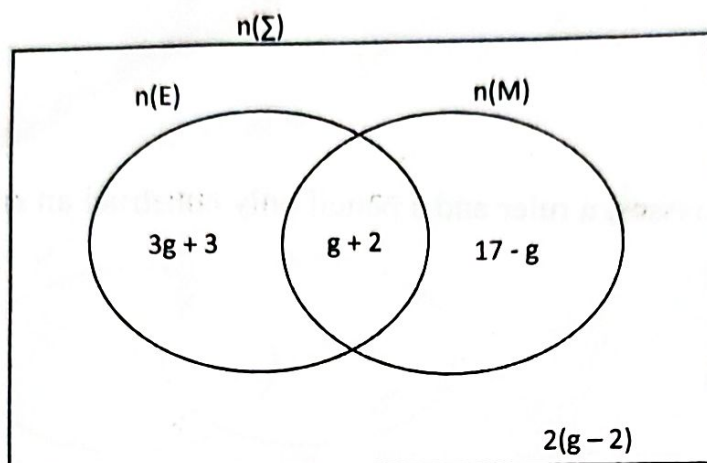18)   How many 300 millitre bottles can be parked in 1.5 litres?

19)   Using a pair of compasses, a ruler and a pencil only construct an angle of
       75^0 at a point M

_____|_____

                M

20)   Write the place value of 3 in 4321.five

SECTION B (60 MARKS)

21)   The venn diagram below shows the number of pupils in a class who like Mathematics (M) and English (E), some pupils like both subjects while 10 pupils like neither Mathematics nor English

n(Σ)

n(E)   n(M)

$3g + 3$ $g + 2$ $17 - g$

$2(g - 2)$

a) Find the value of g   (02 marks)

b) Find the total number of pupils in the whole class.   (03 marks)

c) Find the probability of picking a pupil who likes English and mathematics.

(01 mark)

22 (a) work out $134_{five} \times 14_{five}$

(02 marks)

(b) Find the unknown base in $201_m = 23_{eight}$ **(03 marks)**

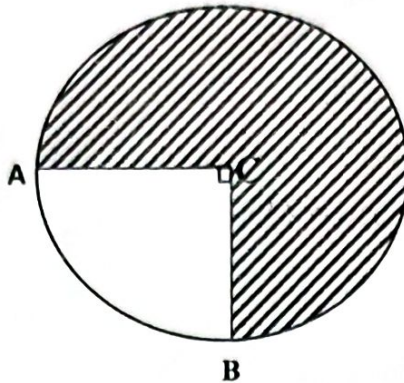23. The table below shows how a bank buys and sells foreign currencies.

currency	Buying in ug.sh	Selling in Ug.sh
1 US dollar (US$)	1 Ug. sh. 3,600	1 Ug. Sh.3,700
1 Pound sterling (£)	1 Ug. Sh. 4,650	1 Ug. Sh. 4,700
1 Kenya shillings (Ksh)	Ug. Sh. 40	Ug. Sh. 42

(a). Biden came from USA to Uganda with 450 US dollars, how much money in Uganda shillings did he get? **(02 marks)**

(b) During his stay in Uganda he spent Uganda shillings equivalent to K. sh. 32275 and he exchanged the rest to pound sterling, how many pounds did he receive from the bank?

(03 marks)

24. If the length of the shorter arc AB in 22 cm and C in the Centre of the circle

(a) Find the length of the longer arc. **(02 marks)**

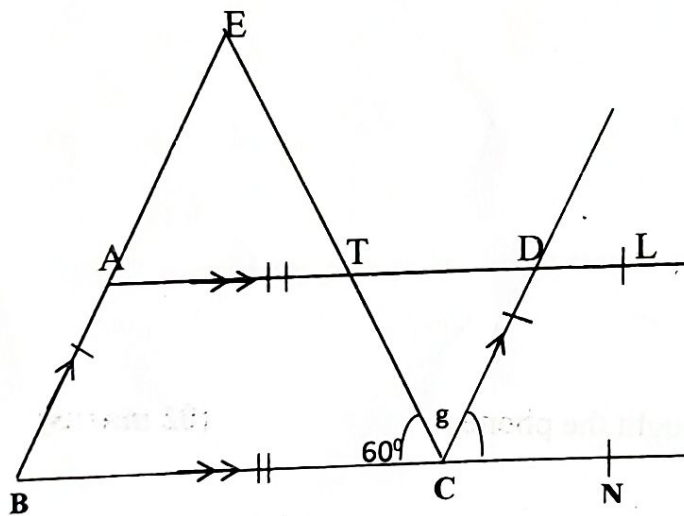(b) Find the perimeter of the shaded part *(use $\pi = \frac{22}{7}$)*

(03 marks)

25. Twaha was travelling from Agago to Arua at an average speed of 45Km/hr. for 2 hours. He discovered that he was slow, he increased the speed by 15km/hr. for the remaining 150km.

Calculate the average speed for the whole journey.   **(06 marks)**

26. Study the diagram below and answer the questions that follow

(a) Find the value of **g**   **(02 marks)**

(b) Find the size of the angle marked DTC.   **(02 marks)**

27. By selling a mobile phone to Mugalya at sh. 275,000 Muleyi made a profit of 10%. Mugalya sold the same mobile phone at a loss of 8% to Agatha.
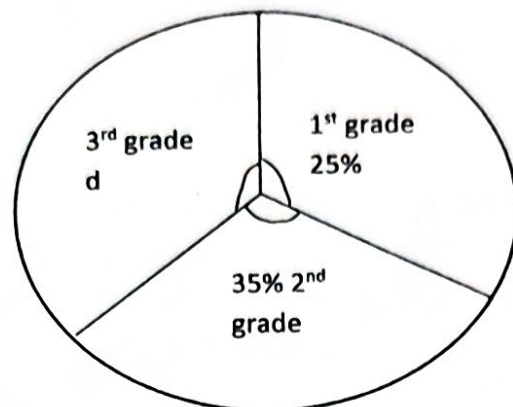
(a) How much money did Muleyi pay for the phone?   **(02 marks)**

(b) Find the price at which Agatha bought the phone.   **(02 marks)**

28. The Pie-Chart below shows the performance of candidates in pre-mock examination of Kale Primary school.

(a) Find the value of d.   (02 marks)

(b) If 63 candidates passed in division two, how many candidates passed in 1st grade?
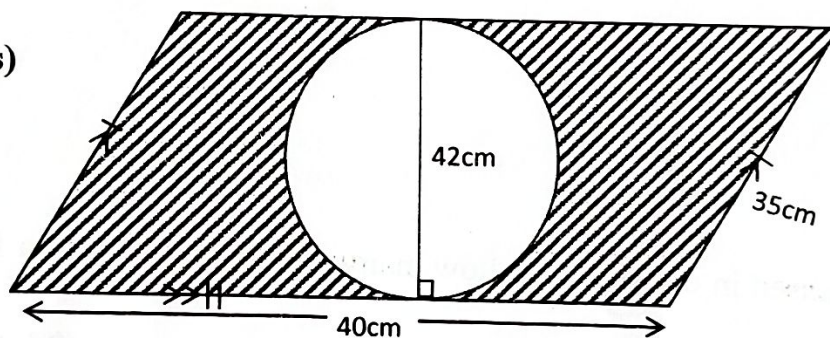
(03 marks)

29. On a farm, $\frac{1}{3}$ of the animals are goats, $\frac{2}{5}$ are sheep and $\frac{1}{4}$ of the remainder are cows, if there are 45 cows, find the total number of animals in the farm?

(06 marks)

30. Find the area of the shaded part in the diagram below *(use $\pi = \frac{22}{7}$)*

(05 marks)

31. Mary is 20 years old, James is 30 years Old. How many years ago was James twice an old as Mary?

(03 marks)

(c) How old will Mary be in 5 years to come? **(01 mark)**

32 (a) Using a pair of compasses, a ruler and a pencil only construct a parallelogram ABCD in which BC = 8cm, CD = 6cm and angle ABC = 60^0, drop a perpendicular from D to meet line BC at point E. **(04 marks)**

(b) Measure the length of DE **(01 mark)**

END