VICTORY STEP EDUCATION SERVICES

PRIMARY LEAVING EXAMINATION

SPECIAL MOCK-2022

MATHEMATICS

PRIMARY SEVEN

Time Allowed: 2 hours 30 minutes

Index No.

Index No.						PERSONAL NO.		

Candidate's Name:……

Candidate's Signature: ……

School Randon No.:……

District Name :……

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

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B**.
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 fountain pen. Any work done in pencil other than graphs, pictures 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 easily be read may lead to **loss of marks.**
7. Do **not** fill anything in the boxes indicated: **"For Examiners' Use Only"**

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Qn. No.	**MARKS**	**EXRS' IN.**
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		

SECTION A: 40 MARKS

Answer **all** questions in this Section

Questions 1 to **20** carry two marks each

1.Work out 28-11

2.Write 70,080 in words

.....

3.Given that M={2,5,8,6} and N={6,9,5,12}.Find (MnN)'

4.Solve the equation 5g-(g+4)=4

5.Find the next number in the pattern

1,4,9,16,25……

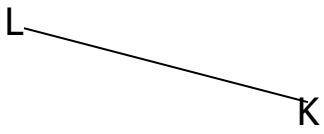
6.Divide 6363 by 7.

7.Akello went to a bank and withdrew abundle of bank notes numbered consecutively from *DP5377584* to *DP5377611*.How many bank notes were in the bundle

8.Round off 12,962 to the nearest thousands

1. 9.Work out :$3\frac{1}{3} \div 2\frac{1}{4}$

10.Use aruler ,pencil and a pair of compasses to bisrct the line segment LK



11.The distance between town T and town R is 120km .it takes a cyclist two and ahalf hours to travel from town R to town T.Calculate the speed ot the cyclist.

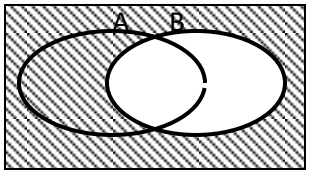
12.Amos packed 55.5kg of sugar in small bags weighing 0.5kg each.find the number of small bags he used altogether

13.Simplify $^{+}4 - {}^{+}6$

14.The lowest common multiple of *W* and *z* is 144 and their Highest common factor is 24.If *w*=72.Find the value of *z*

15.Given that *a*=6, *b*=5 and *c*=4. Find the value of $\frac{a - 2b}{c}$

16.Describe the shaded region in the venn diagram below

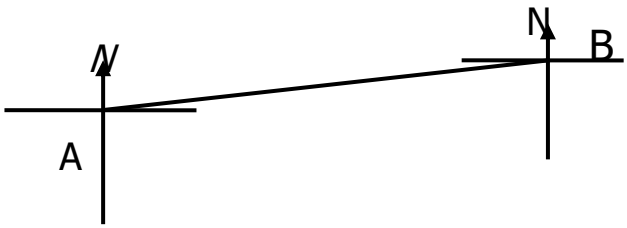


17.Using a pair of compasses,a ruler and a pencil only,construct an angle of 90^0 in the space below

18.Find the number that has been expanded below
$(5x10^{2}) + (3x10^{1}) + (6x10^{-2})$

19.In a line of cars,a bus was the sixteenth from either side.How many cars were in the line altogether?

20.If the bearing of town A from B is *253°.Work out the bearing of B from A*.



SECTION B: 60 MARKS

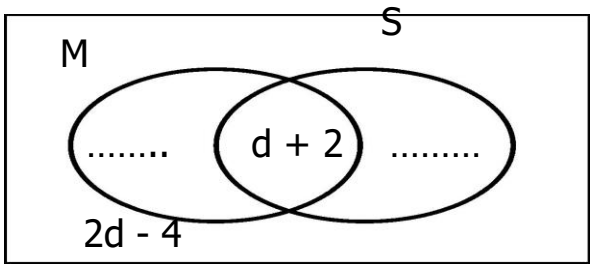
21.a)Write 7411 in expanded form using values. (*02marks*)

b)Round off 914806 to the nearest thousands (*02 marks*)

22.Daniel went shopping with sh.30000 and bought the following items as per the list below.
2 tins of blue band at sh 2000 per tin
$2\frac{1}{2}$ kilograms of meat at sh.9000 per kilogram
500 grams of sugar at sh.4000 per kilogram
36 oranges at sh.1000 every 9 oranges

If Daniel paid sh 3250 less than the total expenditure,what percentage discount was he offered? (*05marks)*

23.In a class (17-d) pupils like mathematics (M) only,(d+2) like both science (s) and mathematics ,(3d+1) like science only while(2d-4) like neither of the two subjects (02 marks)



b) Given that 31 pupils like science all together,find the value of d. *(02marks)*

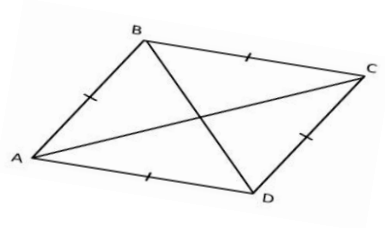
c) How many pupils are in the class altogether? (0*2marks)*

24.Using a ruler,a pencil and a pair of compasses only,construct a triangle DAF where line DF= AD=7.5cm and angle FDA=120^0.Drop a perpendicular from point D to meet line (*05 marks)*

25.a) Work out :5^{2b} x 5 = 125. *(03marks*)

b) Given that $102_t = 11_{ten}$. Find base t (*02marks)*

26.In the figure below,the ratio of diagonal AC to BD is 4:3 respectively.Use the diagram to answer the questions that follow



a)Given the length of BD=12cm,Find the length of AC

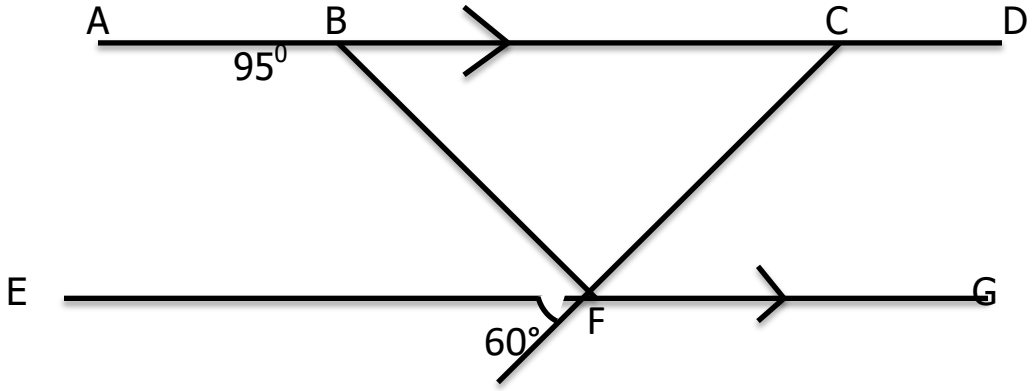
(*02marks)*

b)Calculate the area of the figure ABCD (*02marks)*

27.Kizito left town X at $7:00_{a.m}$ at a speed of 60km per hour reaching town Y at $9:15_{a.m}$ .After resting at town Y for 30 minutes,he continued to town Z at the same speed and arrived at $12:00_{p.m}$
Calculate Kizito's average speed for the whole journey. *(06marks)*

28.Atank is $\frac{2}{3}$ full of water .When $\frac{1}{4}$ of the water was used,2500 litres were left.Find the capacity of the tank it is $\frac{2}{5}$ full *(05marks)*

29.In the figure below, line *AD* is parallel to *EG*, angle *F*=60^0 and *ABF*=95^0.Study the diagram carefully and answer the questions that follow.



(a) Find the size of angle CFB. (*02marks)*

b) Calculate the size of angle FCD (*02marks)*

30.The table below shows the buying and selling rates of different currencies in bank of uganda

currency	***Buying(ug.sh)***	***Selling (ug.sh)***
1 US dollars ($)	3500	3550
1kenya shilling(k.sh)	29	30
1 Rwanda shilling(R.F)	3.5	4

a)A tourist entered the bank with 40,000 Rwanda Francs and 14,000 Kenya shillings.How much in Uganda shillings would he receive from the bank?

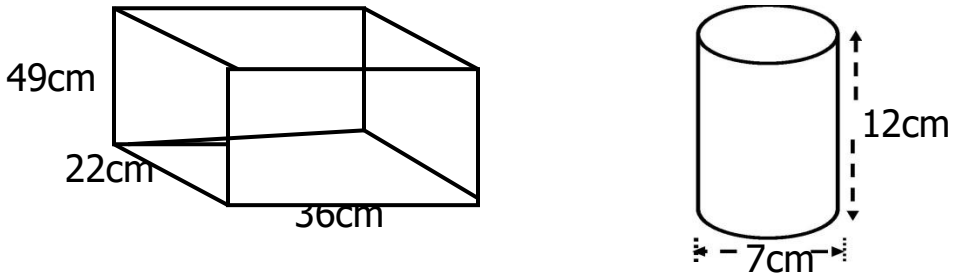
(03 marks)

b) A missionary had 600 dollars to exchange.How much would he get in Rwanda Francs (*02marks)*

31.a) solve: $\frac{2X - 2}{3} = \frac{X + 1}{2}$ (*02mark)*

b)Subtract :(g + 2t) from 2(2g - t) (*03marks)*

32.The diagram below shows a rectangular box and acylindrical cup.Study the diagram and answer the questions that follow



a) If such cylindrical cups are to be packed into the box,How many cups will fill the first layer of the box? (*04 marks)*

b)How many layers will fill the box?