LUWEERO DISTRICT ACADEMIC BOARD

PRIMARY SEVEN TRIAL TEST 2023

MATHEMATICS

Time Allowed: 2 Hours 30Minutes

EMIS NO.						PERSONAL NO.		

Pupil's Name.....

School Name.....

Pupil's Signature.....

Read the following instructions carefully.

1. The paper has two sections **A** and **B**
2. Section **A** has **20** short questions. (**40marks**)
3. Section **B** has **12** questions. (**60marks**)
4. All answers to questions in both section A and B must be written in the spaces provided below.
5. All answers must be written in **blue** or **black** ink.
6. Unnecessary alteration of work will 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 box labeled **"FOR EXAMINERS' USE ONLY".**

FOR EXAMINERS' USE ONLY		
NO.	**MARKS**	**INITIAL**
1 - 5		
06 - 10		
11 - 15		
16- 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

TURN OVER

SECTION A

1. Fill in the missing number

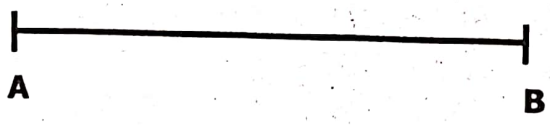
   $5 + (6+3) = (5+ \_\_\_) + 3$

2. Simplify : $\frac{5}{8} - \frac{1}{8}$

3. Find the next two numbers in the sequence.

   4, 6, 8, 9, _____, _____

4. Using a pair of compasses, pencil and ruler only, bisect the line below.

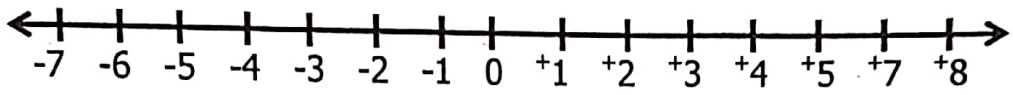


5. The table below shows the attendance of primary seven pupils of Bombo Umea Primary school on a certain day. Out of 80 pupils, if 6 boys were absent, complete the table.

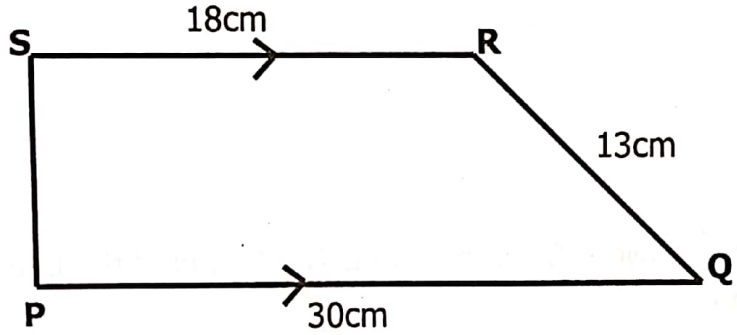
P.7 ATTENDANCE

Boys	
Girls	45
Total	

6. Use the number line below to work out: $^{-}4 - {}^{+}5$



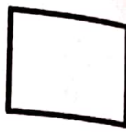
7. Study the figure PQRS below carefully and workout its perimeter given that SR is parallel to PQ, where PQ = 30cm, SR=18cm and QR = 13cm.



8. Round off 6.951 to the nearest tenths.

9. Draw a venn diagram to show the relationship between sets A and B.
Given that : A = {All pupils in P.7}
B = {Girls in P.7}

10. Given that **k = -3 , y = 4 , r = 6.** Find: $\frac{ky - r}{r}$



11. A school has enough food to last 500 pupils for 9 days. 50 pupils went out for a national championship in athletics for two weeks. How long does the food last for the remaining pupil?

12. The direction of town K from town W is N 47^0 E. Find the bearing of town W from K.

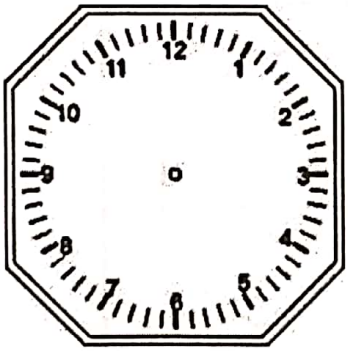
13. Work out:

$$\begin{array}{r} 1010_{\text{two}} \\ -\quad 11_{\text{two}} \\ \hline \\ \hline \end{array}$$

14. Mr Mawanda is to travel to USA with US dollars. He has Ush. 12,480,000. How much US dollars will he go with, given that (1$ = Ush. 1560)

15. Musisi fenced his circular farm with 255 poles fixed at intervals of 5 metres apart. Find the circumference of the farm.

16. Show 1915Hrs using the 12hour clock face below



17. Write **XCIV** in words.

18. Given that Y ={3, 4, 5, 6}, X = { 3, 4, 6, 7, 8, 9}. Find $\mathbf{n(YnX)'}$

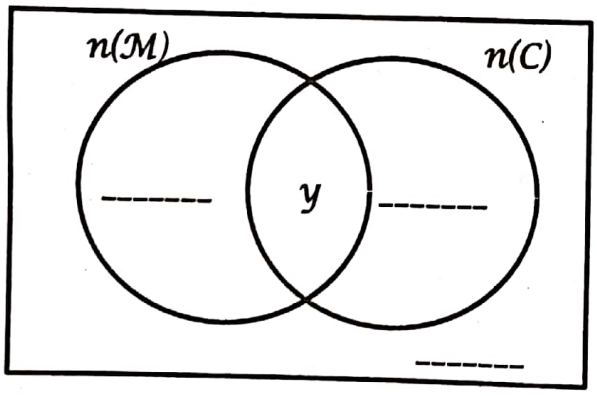
19. Solve **3(2p-2) = 2(p-9)**

20. How many packets each weighing 450grammes can be obtained from 90kg of sugar?

SECTION B

21. At a wedding party, $(2y-2)$ guests ate meat (M) only, y guests ate both meat and chicken, $2y$ guests ate chicken(C) only while $(y+5)$ ate neither meat nor chicken.

(a) Complete the venn diagram below (3marks)



(b) If the number of pupils who ate meat only is equal to the number of pupils who ate neither meat nor chicken. Find the value of y. (2marks)

(c) What is the probability of picking a guest at random who ate only one type of sauce? (1mark)

22. At a P.7 leavers' party, $\frac{1}{3}$ of the candidates ate chips, 0.25 of the remainder ate chapatti and the rest ate rice. If the number of candidates who ate rice is 160,

(a) Find the fraction of those who ate rice? (3marks)

(b) How many candidates attended the leavers' party? (2marks)

23. The interior angle sum of a regular polygon is 1260^0.

(a) Name the polygon (3marks)

(b) Find the size of each exterior angle of the polygon. (2marks)

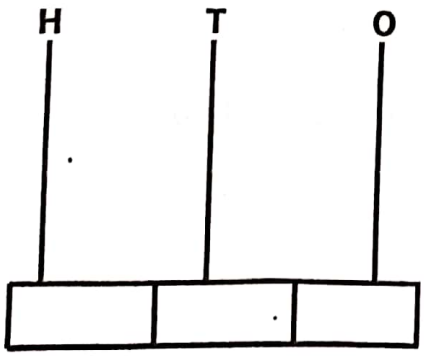
24. (a) Peter was sent to the food store on Thursday **27th** of May to count the number of pumpkins to be prepared daily for breakfast. He counted using only the fingers of one hand starting with one. If there were 96 pumpkins, on which finger did he stop? (2marks)

(b) If the last breakfast meal of pumpkins was served on 14th of July, How many pumpkins were eaten each day? (3marks)

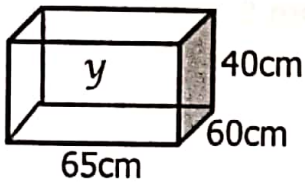
25. **Given that digits 7, 0 and 5**

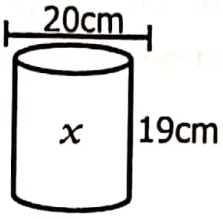
(a) Form all the 3 digit numerals using the digits above. (2 marks)

(b) Show the smallest numeral formed on the abacus. (2marks)



26. Given that cylindrical tins X are to be packed in box Y.





(a) How many cylindrical tins can fill the first layer? (2mark)

(b) Find the volume of the space left unoccupied after packing tins x in y. (3marks)

27. (a) Work out: $122_{three} \times 12_{three}$ (3marks)

(b) Solve for y in $102_y = 14_{seven}$ (3marks)

28. (a) **Using a pair of compasses, a pencil and a ruler only, construct parallelogram PQRS where PQ = 7cm, angle QPS is 45^0 and line QR = 4.5cm. Drop a perpendicular line from S to meet line PQ at X.** (5marks)

(b) Measure SX ..... (1mark)

29. The table below shows the routes taken by taxis of a company showing the duration, departure and arrival time.

(a) **Complete the table** (3marks)

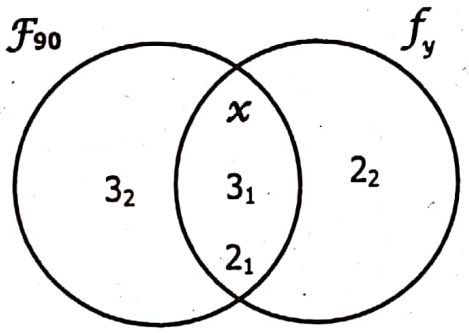
Route	Arrival	Duration	Departure
W	1730hrs	12hrs 30mins	.....
X	.....	4hrs	1600hrs
Y	1015hrs	.....	0305hrs

(b) Calculate the distance covered by taxi via route Y which was travelling an average speed of 96km/hr (2marks)

30. Godfrey is 20 years older than Brian. 10 years ago, Godfrey was twice as old as Brian.

(a) Find how old each of them is now. (4marks)

31. **Study the Venn diagram below and use it to answer the questions that follow.**

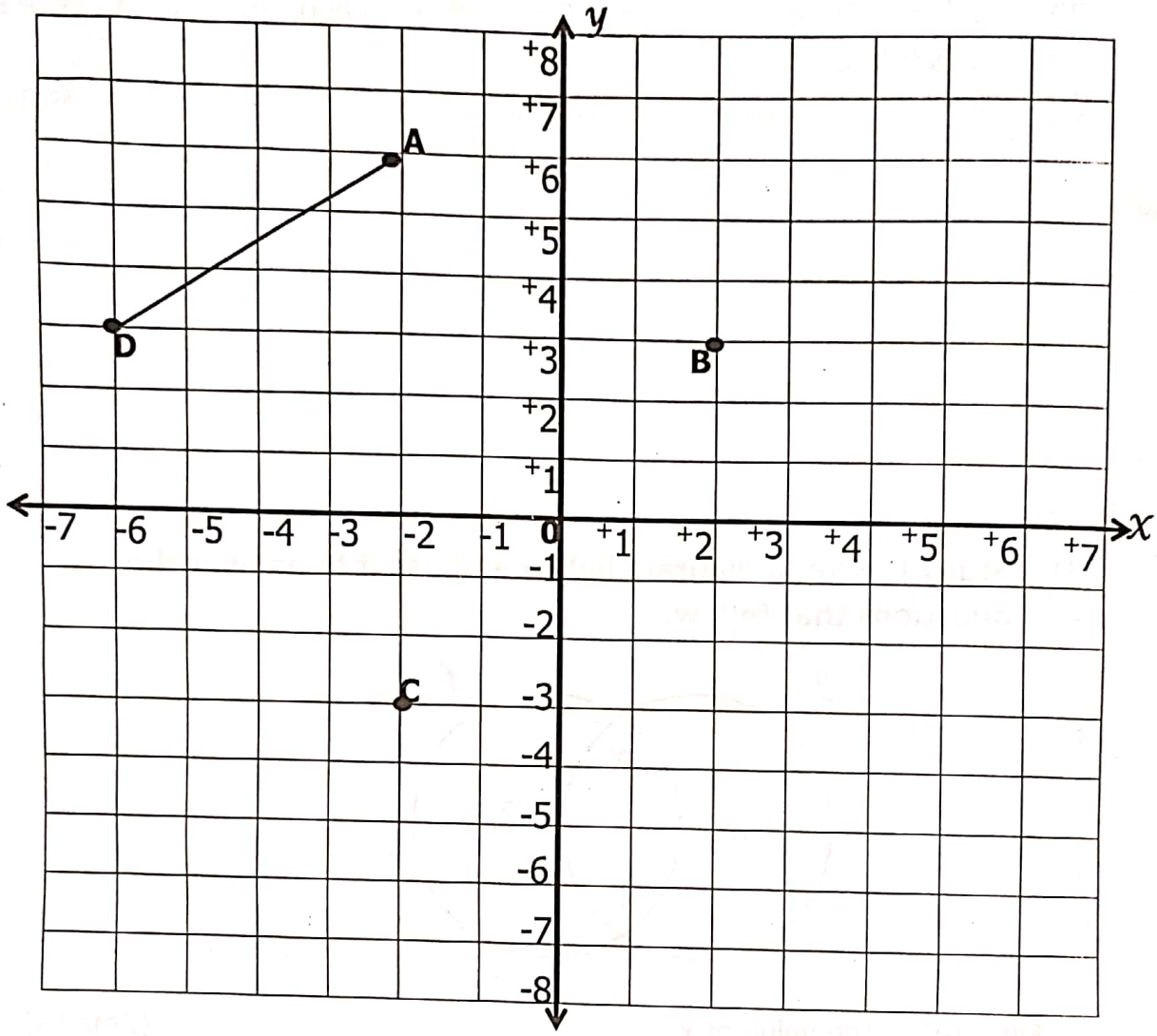


Find; (a) The value of x (2marks)

(b) The value of y (1mark)

(c) The Lowest Common Multiple (LCM) of 90 and y. (2marks)

32. **Study the grid below and use it to answer the questions that follow.**



(a) Name the co-ordinates for the points;

(i) A (....., ...) (ii). C (....., ...) (iii). D (....., ...) (3marks)

(b) Join the points A to B, B to C and C to D and name the polygon formed. (1mark)

(c). Work out the area of the figure formed. (2marks)