

# ST. GABRIEL SCHOOLS BUSAABALA

# ACADEMIC BOARD EXAMINATIONS PRIMARY SEVEN PRE- REGISTRATION EXAMINATION (SET 2) 2024 MATHEMATICS

Time Allowed: 2 hours 30 minutes

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Candidate's Na	me:		•••••	 	 •••••	 		••••
Candidate's Sig	gnatu	re:		 	 	 		
School Name:				 	 	 		•••••

#### Read the following instructions carefully:

- 1. Do not **forget** to write your **school** and **district name** on this paper.
- This paper has two sections: A and B.
   Section A has 20 questions and Section B has 12 questions.
- 3. Answer **all** questions. **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 ink.
  Any work done in pencil other than graphs and diagrams will not be marked.
  - 5. **No calculators** are allowed in the examination room.
  - 6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.
  - 7. Do not fill anything in the table indicated:

"For Examiners' Use only" and boxes inside the question paper.

FOR EXAMINERS' 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.**

1. Using a ruler, a pencil and a pair of compasses only, construct the supplementary angle of  $135^{\circ}\,$ 

2. Given that n= 3, m = -2 and y = 8. Find the value of  $\frac{mn}{y+m}$ .

3. Find the number of elements in a set with 32 subsets.

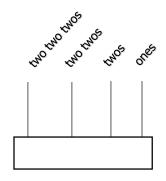
4. Work out: 18.4 - 9.16 + 7.23

5. Show the lines of folding symmetry in the figure below.



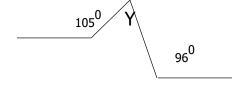
6. What was Mr. Kojoki's electricity meter reading at the beginning of the month if he used 99 units in the month of February and his current meter reading is 0064126?

7. Show  $11_{ten}$  on the abacus below.



8. Plot -5, 2, 0, -3, 4, -4, 1 on a number line.

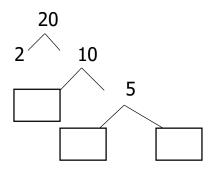
9. Find the size of angle marked y.



10. Given that set  $Q = \{Prime numbers between 40 and 50\}$ . Find n(Q)

11. A bag has 6 red pens, 10 blue pens and 4 black pens. What is the probability of picking a black pen without looking into the bag?

12. Complete the factor tree below and write your answer in subscript form.

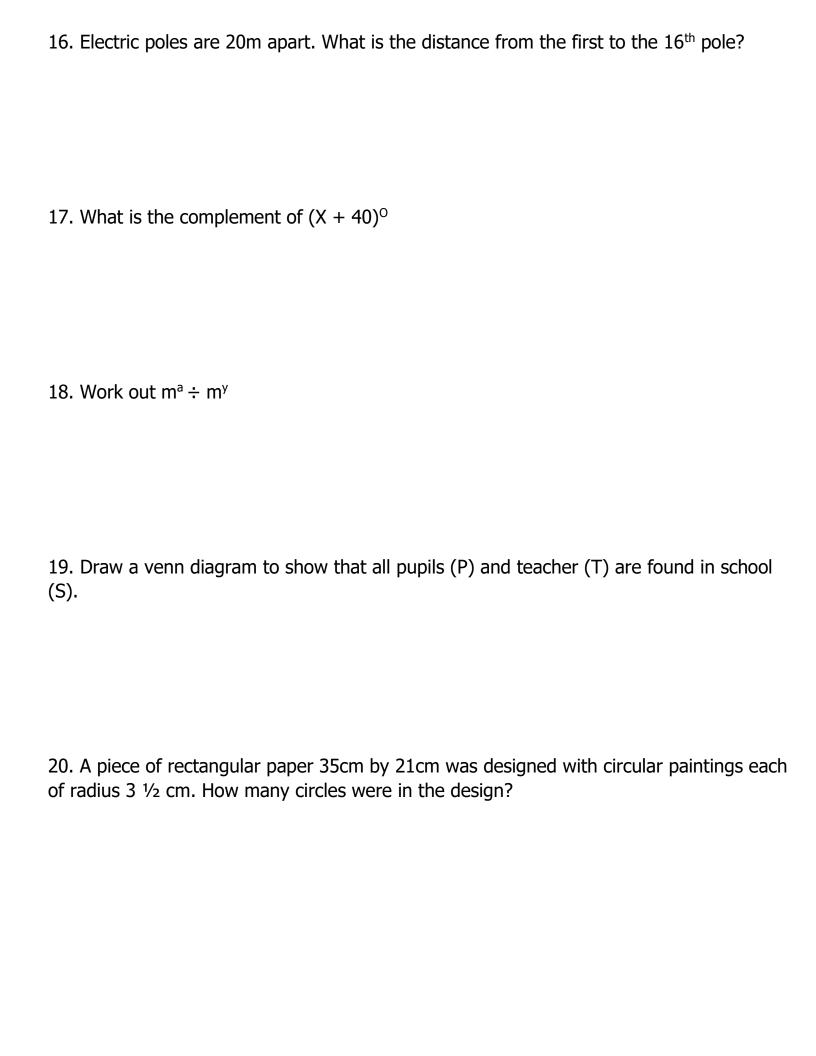


13. Round off the year Uganda got her independence to the nearest hundreds. Write your answer in Roman numerals.

14. Solve for n:

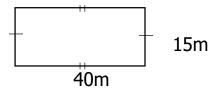
2:3 = n: 6

15. Find the reciprocal of  $5\frac{4}{10}$ 



## **SECTION B. (60 marks)**

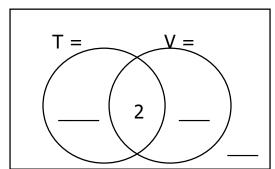
21. Jerome wants to fence around his compound below using colored poles planted at intervals if 11 meters apart.



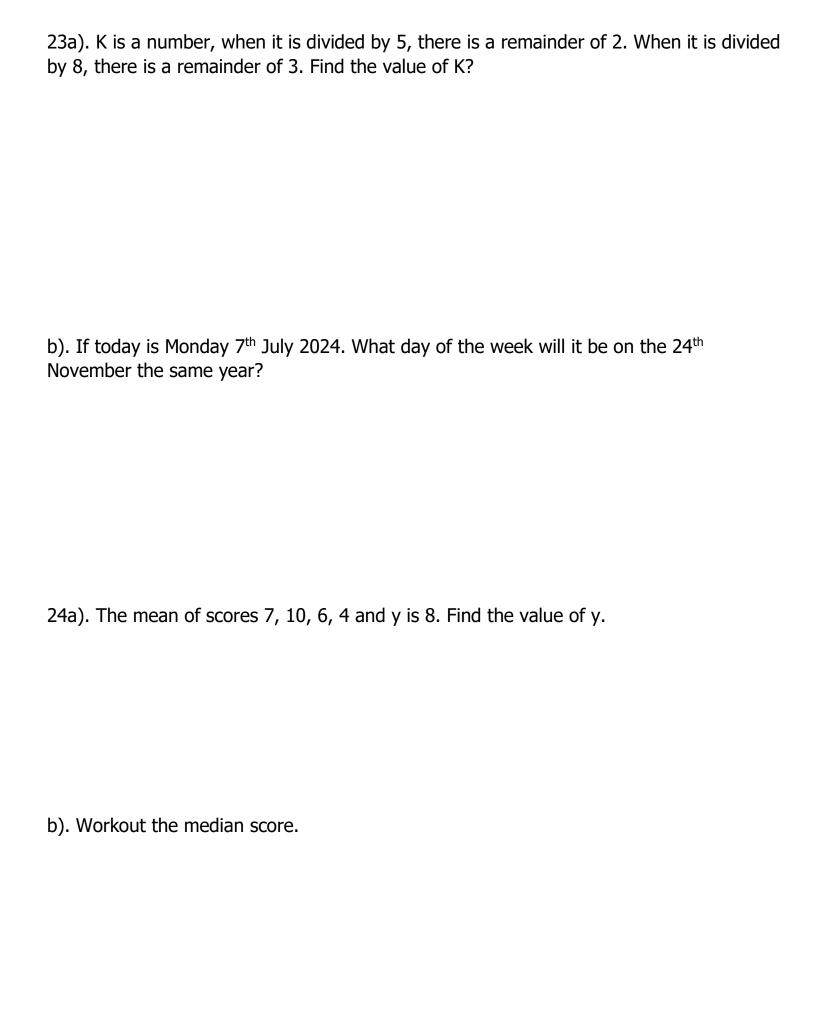
a). How many poles does he need?(3 marks)

b). Given that one pole costs shs. 2700, how much money is needed to buy the poles? (2 marks)

- 22. During a sports day, 18 girls played volley ball (V), 2 girls played both volley ball and Tennis, (t-3) pupils played Tennis only and 2t pupils played other games.
- a). Use the information given to complete the venn diagram below.



b). If 30 girls did not involve themselves in volley ball. Find the value of t.

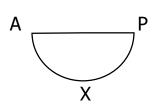


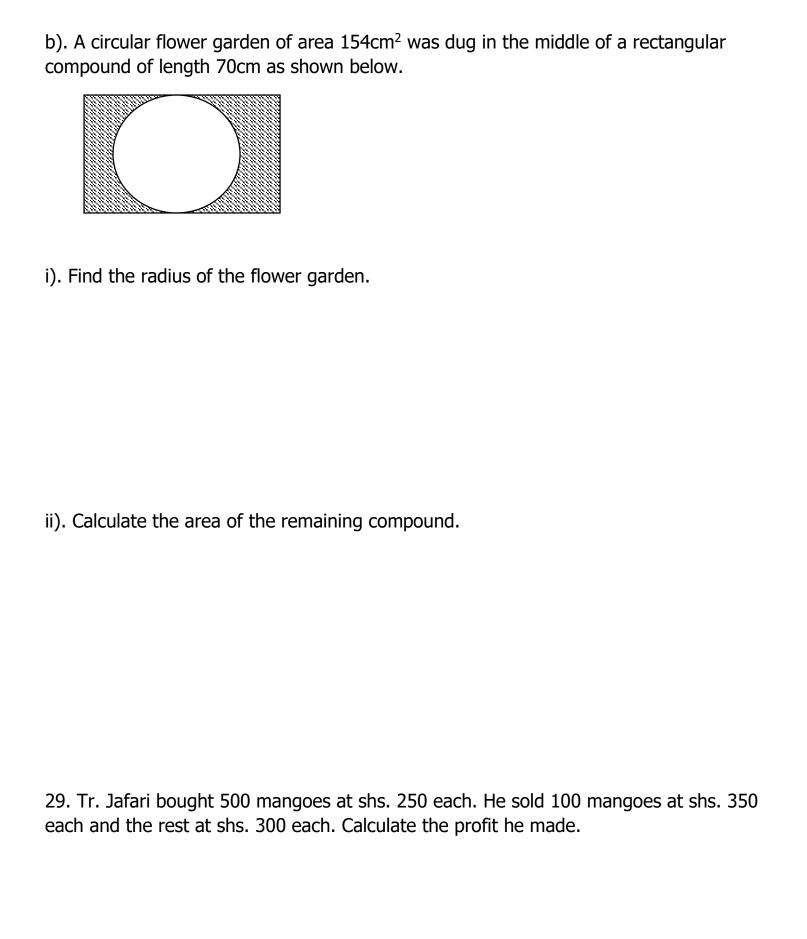
c). Find the probability that a score picked at random is below the mean.
25. A father is 18 years older than his son. In 10 years time, the father's age will be twice as old as the son.
a). What is the father's present age?
b). How old will the son be in 10 years time?
26. Crane Bank offers a simple interest rate of 2 $\frac{1}{2}$ % p.a on all deposits. How much money should I deposit in this bank if I want to get an interest of shs. 200,000/= in 5 years time?

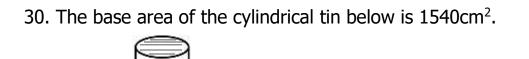
27a`	Find	the center	angle	of a	regular	nentagon
<b>Z/</b> a,	, i ii iu	tile celltel	angic	Oi a	i Cyulai	pentagon

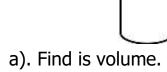
b). Using a sharp pencil, a ruler and a pair of compasses only, construct a regular pentagon of sides 5cm inside a circle.

28a). The diagram below is of a semi-circle. If arc AXP is 33cm, find the length AP (use  $\pi = 22/7$ )









b). How much water does the above tin hold when completely full?

31a). Convert 79 to senary base.

b). Find the value of q:  $2q^2 = 112_{five}$ 

32. Given the equation of the line K is y = x + 2. Complete the table below

- 4			2	1	0	Χ
	- 1	0	4		2	Υ

**END**