

JACARANDAS JUNIOR SCHOOL

PRIMARY SEVEN PRE – PLE REGISTRATION SET 2024

MATHEMATICS

Time Allowed: 2 hours and 30 minutes

Index No.					Personal No.			

Pupil's Name:	••••
Pupil's Signature:	
School Name:	
District Name:	

Read the following instructions carefully:

- Do not forget to write your school or district name on the paper
- This paper has two sections: A and B. section A has 20 questions and section B has 12 questions. The paper has 12 printed pages.
- 3. Answer **all** questions. **All** working for both section **A** and **B** must be shown in the spaces provided.
- All answers must be written using a blue or black ball point pen or ink. Any work written in pencil will not be marked.
- 5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
- 6. 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					
16 – 20					
21 – 22					
23 – 24					
25 – 26					
27 – 28					
29 – 30					
31 – 32					
TOTAL					

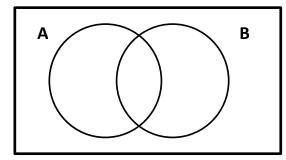
Turn Over

SECTION A: 40 MARKS

Answer **all** questions in this section Questions **1** to **20** carry **two marks** each

1.	Giving your answe	er in Hindu – Aral	oic numerals, find	d the sum of V and IV.

2. On the Venn diagram below, shade the complement of set (A - B)

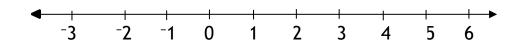


3. In the space below, using a ruler, protractor and a pencil, draw the complementary angel of 30° .

4. Write an algebraic phrase for the expression; 2(x+y).

5. Write the test divisibility of 6.

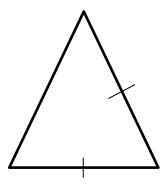
6. On the number line below, draw an arrow showing ⁻5.



7. Given that 55 girls were represented by 11 pictos, find the scale used.

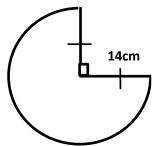
8. Workout; $1101_{two} - 111_{two}$

9. The figure below is a triangle. How many lines of symmetry does it have?



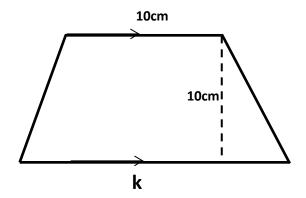
10. Find the length of the curved part in the figure below. (Use $\pi = \frac{22}{7}$)

3



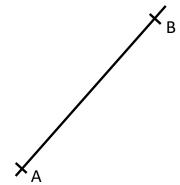


11. Given that the area of the figure below is 120cm². Use it to find the value of **k**.



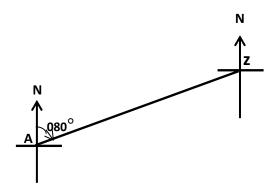
12. The temperature at the peak of a mountain is ⁻18°C and at the bottom is 5°C. find the difference between the two places.

13. Using a pencil, ruler and a pair of compasses only, draw a perpendicular bisector to meet line AB at X.

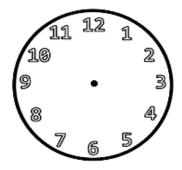


14. Find the square root of $2\frac{14}{25}$

15. Using the diagram below, find the bearing of town A from town Z.



16. On the clock face below, show a quarter to mid-day.



17. Increase 1200 in the ratio 3:5.

18. Which number has been expanded to give; $(3x5^2) + (4x5^0) + (2x5^1)$? (Give your answer in decimal base)

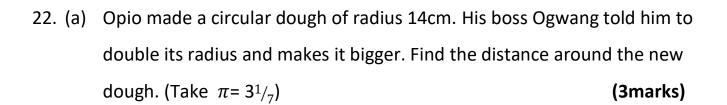
	SECTION B: 60 MARKS	
20.	Find the value of X in, $2^x \div 2^2 = 4$.	
	sweets without leaving a remainder.	
19.	Find the biggest number of children that can completely share 36	or 60

Answer **all** questions in this section

Marks for each question are indicated in brackets

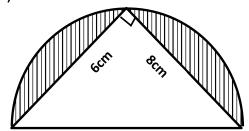
21. The median of four consecutive odd numbers is 20. Find their sum.

(4marks)



(b) Find the area of the shaded part in the figure below. (Take π = 3.14)

(3marks)



23. (a) Using a ruler, pencil and a pair of compasses only, construct a triangle PQR with QR = 6cm, PQR = 75° and QPR = 60° . (4marks)

(b) Measure the length of PQ.

(1mark)

24. Kaka bought the items in the table below from a shop.

(a) Complete the table.

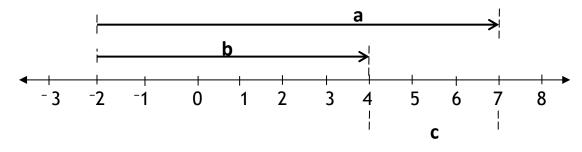
(4marks)

Item	Quantity	Price	Amount		
Soap	bars	sh. 4,500	sh. 13,500		
Bread	2 loaves	sh	sh. 11,000		
Salt	2½kg	sh. 2000	sh		
Total expenditure sh					

(b) If Kaka paid sh. 26550, what was his percentage discount?

(2marks)

25. Study the number line below and answer the questions that follow.



(a) Write the integers represented by arrows **a** and **b**. (1mark each)

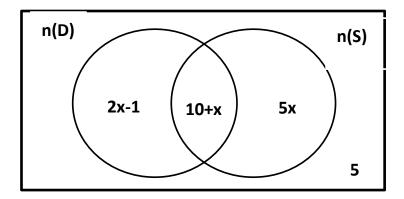
(b) Complete the number line by drawing arrow **C** correctly.

(1mark)

(c) Write a mathematical sentence for the above number line.

(1mark)

26. The Venn diagram below shows the number of candidates who participated in the **debate (D)** and **speech championships (S)**. Use it to answer the questions that follow.



(a) If 8 candidates never participated in the speech championships, find the value of X. (3marks)

(b) How many candidates are in the whole class?

(2marks)



Turn Over

27. (a) Solve; (3x-4)-(x+6)=0

(2marks)

(b) 3 girls shared a third of the cake equally and the boys shared the rest of it. If each boy got a sixth of the cake, how many children shared the cake? (3marks)

28. (a) Express 0.5454 As a common fraction.

(2marks)

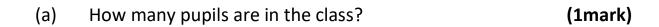
(b) Simplify; $\frac{1.28 - 0.56}{0.08 + 0.28}$

(3marks)

29.	Three children Jolly, Joy and Jotham shared a certain amount of money in the ratio of 3:4:7 respectively. If Jotham received sh. 120,000 more than Jolly.						
	(a)	How much money was shared altogether?	(3marks)				
	(b)	How much more money did Joy receive than Jolly?	(2marks)				
30.	and and	acarandas Junior School, there are two bells, one for low the other for upper primary which rings at intervals of 3 40 minutes respectively to change lessons. If the two be other at 11:00am. At what time will they ring together as	30 minutes ells ring				

31. The table below shows marks scored by candidates at Jacarandas Junior School in mathematics.

Marks scored	70	85	80	95	65
No. of pupils	4	3	3	2	2



- (c) Find the mean score for candidates who scored above 80 marks. (3marks)
- 32. The sum of interior angels of a regular polygon is 900°. Name the polygon. (4marks)



END