INTENSIVE CARE SCHOOLS WANDI

EMERGENCY MOCK SET 2024 PRIMARY SEVEN MATHEMATICS

Time allowed: 2 hours 30 minutes

Index	No.			
Cand	lidate's Name:			
Cand	lidate's Signature:			_
Read	the following instructions carefully:	FOR EXA	WINER'S	USE ONL
1.	The paper has two sections: A and B			
2.	Section A has 20 short questions (40 marks)			
3.	Section B has 12 questions (60 marks)	FOR EXAMINER'S USE ONLY		
4.	Answer ALL questions. All answers to both Sections A			
	and B must be written in the spaces provided.	Qn. No	MARK	SIGN
5.	All answers must be written using a blue or black ball	1 – 10		
	point pen or ink. Diagrams should be drawn in pencil.	11 – 20		
6.	Unnecessary alteration of work may lead to loss of marks.	21 – 30		
7.	Any handwriting that cannot be easily read may lead to	31 – 32		
	loss of marks.	TOTAL		
8.	Do not fill anything in the boxes indicated for Examiner's			

Turn over

use only.

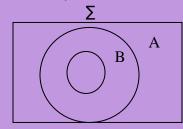
SECTION A: (40 MARKS) Questions 1 to 20 carry two marks each.

- 1. Work out: 2 4 + 6 3
- 2. Write in figures: Nine hundred four thousand eighty.

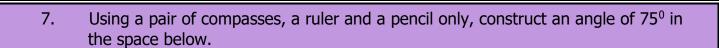
3. Express <u>3</u> as a percentage.

4. Simplify: 5 - 5(2y - 3)-7y

5. In the venn diagram below, shade B'



6. Find the next number in the sequence 169, 120, 84, 59, 43, _____.



8. Aisha made a loss of sh.28,000 when she sold 40 textbooks for sh.120,000. What price did she buy each textbook?

9. Express 0.0065 litres in cm³.

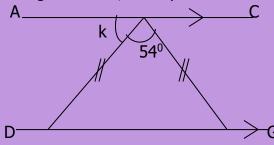
10. Change 25 to binary base.

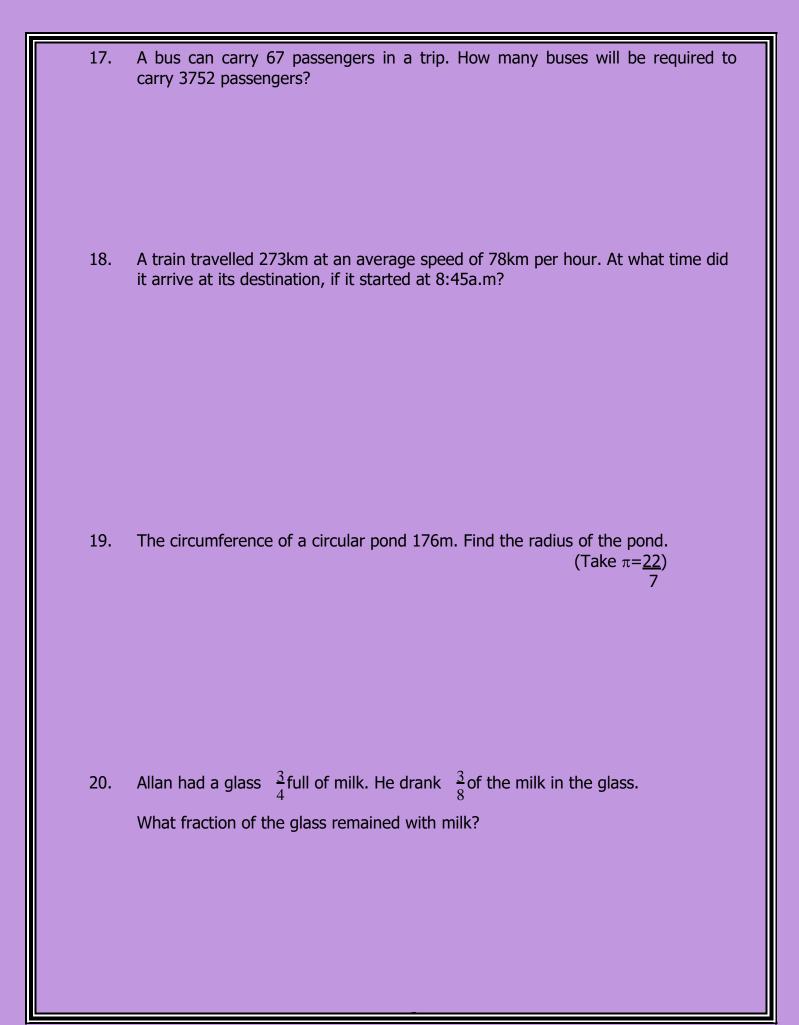
- 11. Solve: 7 3y = 11y
- 12. Find the average of 27, 11, 0, 16, 17 and 19.

14. Simplify: $12m^5 \div 3m^2$

15. A baby slept at 8:35a.m. If the baby slept for 2hrs and 45 minutes, at what time did the baby wake up?

16. In the figure below, AC is parallel to DG. Find the value of k.

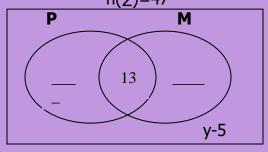




SECTION B: (60 Marks)

(Marks for each question are indicated in brackets)

- 21. In a class of 47 pupils, 24 drink Pepsi cola (P), (y+6) drink Mirinda (M) only, 13 drink both Pepsi cola and Mirinda while (y-5) drink neither of the two types of soda.
- (a) Use the information above to complete the venn diagram below (2 marks) $n(\Sigma)=47$



(b) Find the value of Y.

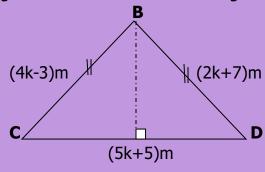
(2 marks)

(c) Find the number of pupils who do not drink Pepsi cola. (1 mark)

22. (a) Round off 998 to the nearest ten.

(2 marks)

23. The figure below is an isosceles triangle BCD.



(a) Find the value of k.

(2 marks)

(b) Calculate the area of triangle BCD.

(4 marks)

24.	The table below shows marks scored by the pupils in a mathematics
	test. Use it to answer questions that follow.

Marks scored	70	40	30	50
Number of pupils	3	4	2	1

(a) How many pupils did the test?

(1 mark)

(b) Find the modal mark

(1 mark)

(c) Find the mean mark.

(3 marks)

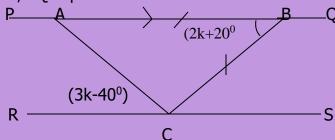
25. Tap A can fill a tank in 4 hours, while tap B can fill the same tank in 6 hours. If the two taps are both opened at 1:30p.m. at what time does the tank fill?

(5 marks)

26. (a	a) Using a pair of compasses, a pencil and a ruler only, construct parallelogram PQRS in which PQ=6.5cm, QR=5cm and angle	
(t	o) Measure the length of a diagonal PR.	(1 mark)
27 A c	car travels at an average speed of 15m/sec. What is this speed	in km per hour? (3 marks)
	car took 1 hour 12 minutes to cover a distance of 90km. How cover 5km?	long does it take (2 marks)

28. Kalungi, Bogere and Ruth shared a certain amount of money in the ratio of 3:4:5 respectively. If Ruth got shs.50,000 more than Kalungi.				
•	(a) How much did they share altogether? (3 marks)			
(b) Express Kalungi's sha	re as a percentage of th	ne total amount shared. (2 ma	arks)	
29. The table below shows the exchange rates of different currencies at A forex bureau.				
CURRENCY	BUYING RATE	SELLING RATE		
1 united stated dollar (\$)	Ug sh.3600	Ug sh. 3,700		
1 Kenya shilling (Ksh)	Uga sh. 33	Ug sh.35		
a) If a tourist has Ug sh.2,960,000, how many US dollars can the tourist get from the forex bureau? (2 marks)				
(b) Ssali travelled from Brita forex bureau?	in with 105. How many	y Kenya shillings can he ge (3 marks)	t from the	

30. In the figure below, PQ is parallel to RS and AB is an isosceles triangle.



a) Find the value of k.

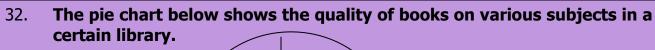
(3 marks)

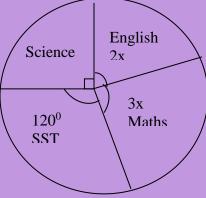
b) Workout the size of angle CBQ

(2 marks)

(b) Solve: $\frac{3}{5}p + 6 = 2 + p$

(3 marks)





(a) If there are 135 science books, find the number of English books in the library. **(4 marks)**

(b) Express the number of SST books as a percentage of all books in the library. (1 mark)

Good Luck