BROAD

BROAD EXAMINATIONS®

P.6 MATHEMATICS EXAMINATION TRIAL SET I TERM I - 2023

Time allowed: 2 hours 30 minutes.			
Pupil's Name:			
School Name:			
District Name:		****(*****	
Read the following instructions carefully:	FOR EXAMINER'S		R'S
1. This paper is made up of two sections: A and B.	U	SE ONLY	
2. Section A has 20 questions (40 Marks).	PAGES	MARKS	SIGN
3. Section B has 12 questions (60 Marks).	Page 2		
4. Answer ALL questions in both sections A and B.	Page 3		
5. All answers must be written in the space provided in	Page 4		
blue or black ball point pens and ink. Only diagrams should			
be done in pencil.	Page 5		
6. Unnecessary crossing of answers will lead to loss of marks.	Page 6		
7. Any handwriting, which cannot be easily read, may lead to loss of marks.	Page 7	- 5.10	
8. Do not fill anything in the boxes indicated for	Page 8		
Examiners' use only.	TOTAL		
Teacher's comment to the learner			
A	pproved by:		
	and		
	eam Head Math	ematics D	ept.

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	SECTION .A.	(40 M	Shade AUB in the diagram below.
1.	Work out; 4 3 -1 0	2.	Shade AOD III
3.	Express 24 in roman numerals.	4.	Find the missing number. + 3 = 7
5.	Draw bundles to represent the number below. 19 =	6.	Find the area of the square below, 6dm
7.	Add; 7 + 5	8.	Find the next number in the sequence below. 14, 12, 10, 8,
9.	A trader bought an item at sh. 1500 and later sold it at sh. 2000. Find the profit made.	10.	What is the reciprocal of 3? 7

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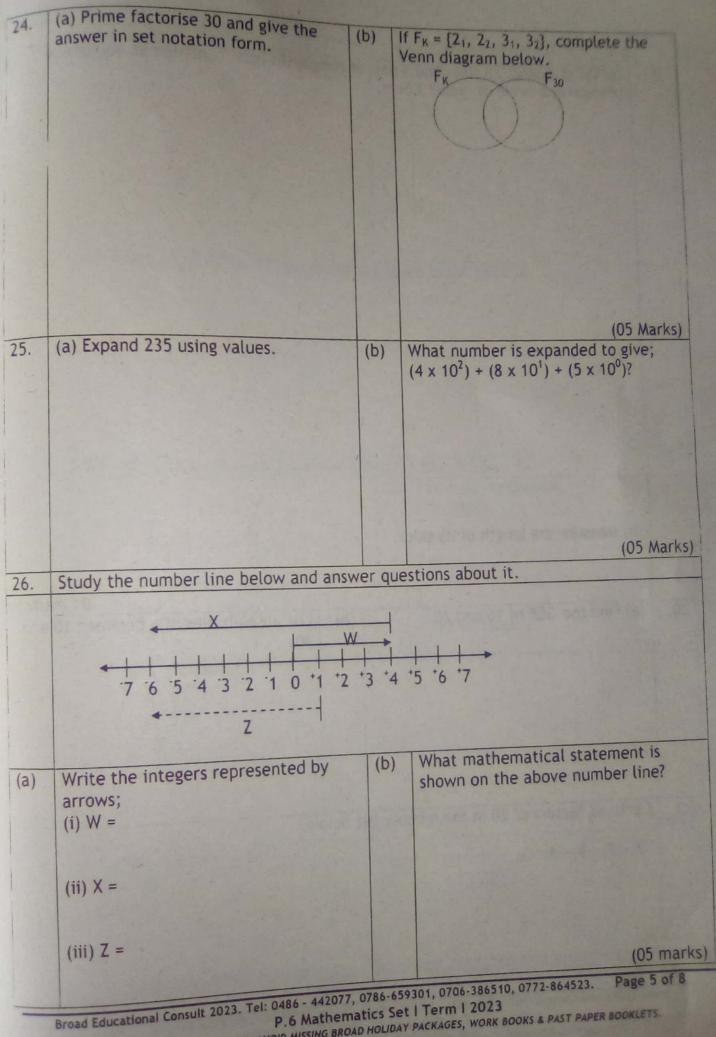
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11.	Using a protractor, draw an angle of 65°.	12.	What time is shown on the clock face below?
13.	Work out; 1 0 2 _{five} + 13 _{five}	14.	Multiply; 1 4 3
15.	Simplify; 0.24 + 1.8	16.	Find the average of 7, 6, 8, 9 and 15.
17.	Set F= {factors of 12}, find n(F).	18.	A mathematical set costs sh. 4500. Find the cost of 9 similar Mathematical sets.
9.	In the diagram below, find the size of the angle marked P in degrees.	20.	What is the Lowest Common Multiple (LCM) of 18 and 24?
	50° 50°		

	SECTION .B. (60 Marks)		
21.			
	M N 0 1 3 6 9 5 7	(a)	List all the members of set N.
(b)	How many members are there in MON?	(c)	What is M-N?
			(05 marks)
22.	A woman went to the market and boug		following items.
	2 pencils at sh. 400 A packet of match boxes at sh. 800 A face mask at sh. 2000	(a)	How much money did she pay altogether?
(b)	Find the average cost of each pencil.	(c)	If she got a boda boda for sh. 2,000 to take her back home, how much money did she spend altogether?
23.	(a) Add; $\frac{3}{4} + \frac{2}{3}$	(b)	Work out; 1 - 3 + 3 2 5 10
1		1	(05 marks)
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VOID MISSING BROAD HOLIDAY PACKAGES, WORK BOOKS & PAST PAPER BOOKLETS.

27	(a) Using a pencil, a ruler and a pair of compasses only, construct an equilateral triangle in a circle of radius 3.5cm.					
1						
	To be a second of the second o					
	AND MANAGER IN THE REAL PROPERTY.					
	· · · · · · · · · · · · · · · · · · ·					
	(b) Measure the length of its sides.					
8.	(a) Find the GCF of 16 and 20.	(b)	List all multiples of 6 be	(04 marks)		
		(0)	40.	tween to and		
			the feet of courses			
	Circle all factors of 20 in the number li					
		st beli	ow.			
	2, 7, 3, 4, 5					
1						
Bro	ad Educational Consult 2023 Tel: 0484 442077 077	06 (50)		(05 marks)		
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In an extended family of 15 member	ers. 3/5 a	re females and the rest	are males.
What is the fraction of males?	(b)	Find the number of fe	emales.
How many more females than male	s are the	re in the family?	
Study the figure below and answer o	questions	that follow.	(05 marks)
8cm	(a)	(ii) faces	
6cm alculate its volume.		(iii) vertices	
			(05 marks)
	How many more females than male study the figure below and answer of the form the fo	How many more females than males are the study the figure below and answer questions (a)	How many more females than males are there in the family? Study the figure below and answer questions that follow. (a) Find its number of; (i) edges (ii) faces (iii) vertices

32.	The bar graph below shows the number of tools in a school store at Mwiri Junior School. Use it to answer questions that follow.
	hoes rakes pangas slashers
(a)	How many hoes are there in the school store? (b) Find the total number of tools in the school store.
(c)	How many more slashers than rakes are there in the school store?
	END (06 marks)

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