## BROAD EXAMINATIONS®

## P.7 MATHEMATICS EXAMINATION PRE - PLE TRIAL SET I 2022

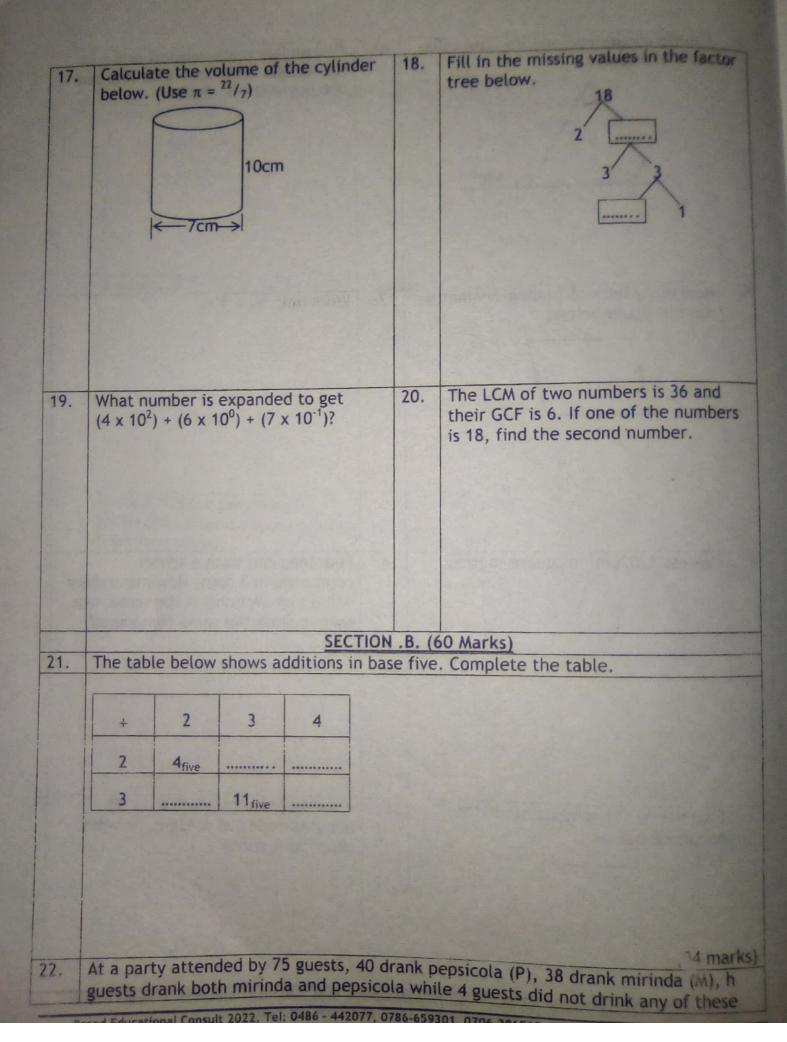
PRE - PLE TRIAL SE		44	
Random No. Personal No.			
Pupil's Name:			
School Name:			
District Name:			
Read the following instructions carefully:		EXAMINE	
1. This paper is made up of two sections: A and B.		SE ONLY	GILLITY!
2. Section A has 20 questions (40 Marks).		MARKS	SIGN
3. Section B has 12 questions (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	Page 7		
loss of marks.			
8. Do not fill anything in the boxes indicated for	Page 8		
Examiners' use only.	TOTAL		
	Approved by:	ematics De	ept.

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P.7 Mathematics Pre - PLE Trial Set I 2022

FOR ACADEMIC EXCELLENCE, AVOID MISSING BROAD HOLIDAY PACKAGES, WORK BOOKS & PAST PAPER BOOKLETS.

1.	Add; 143 + 57	2.	Write 9 <sub>ten</sub> in binary base system.
		1-9	A STATE OF THE STA
		The same	10 1014
			63/ 50
	Express 36 in roman numerals.	4.	Find the value of $3^2 + 5^0$ .
			And the firms
5.	Using a ruler, a pencil and a protractor, draw an angle of 130° in	6.	Work out the area of the figure below.
	the space below.		8dm
			Outil
			5dm 6dn
			odii odii
7.	Simplify; '4 - '6	8.	Solve; 3(p+4) = 18
		113	

9.	In the diagram below, find the value of n in degrees.	10.	Two picfare mathematical sets cost sh. 10,000. How many such sets can
	55° 130°		one buy with sh. 45,000?
	7)55		
11.	How many lines of folding symmetry has the figure below?	12.	Work out; <sup>2</sup> / <sub>5</sub> ÷ 1 <sup>1</sup> / <sub>3</sub>
13.	Express 1200cm <sup>2</sup> in square metres.	14.	Four men can slash a school compound in 3 days. How many days will 6 men working at the same rate take to slash the same compound?
15.	Find the ne two numbers in the sequence below. 2, 3, 5, 7,,	16.	A football match which took 90 minutes ended at 6:43pm. At what time did it start?



	two sodas.		
(a)	Represent the above information on the venn diagram below. $N(\Sigma) = 75$	(b)	How many guests drank both sodas?
	Pepsicola Mirinda		
	( h )		
			(05 marks)
23.	A parent went to a market and bought	the fol	lowing items.
		(a)	How much did she pay for ghee?
	3kg of maize flour for sh. 3,000 a kg		
	1½ litres of cooking oil at sh. 12,000		
		1000	
	750gm of ghee at sh. 16,000 a kg		
(1-)	If she was given a discount of 10% on r	naize f	lour find her total expenditure.
(b)	If she was given a discount of 10% on 1	naize i	tour, find the details and
100			
Marie L			
			(05 marks)
24.	(a) P ime factorise 60 and 90 giving	(p)	Represent the prime factors in 24 (a)
	your answers in set notation form.	4 10	above on the venn diagram below.
	,,,,,,	133	F90 F60
		1	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		130	

	)   Find the GCF of 60 and 90 using the pr	rime f	actors above
(c			actors above.
	THE RESERVED AND ASSESSMENT OF THE PARTY OF		
			(06 marks)
25.	In a group of 120 people, 40% are male	es and	the rest are females.  If '/12 of the males are boys and 5/9 of
(a)	Find the number of females.	(b)	the females are girls, find the ratio of boys to girls in the group.
130	Sand and the party of the Charles of the Charles		
		Part la	LOUIS IN THE THE STREET AND THE STREET
		100	Car drive he go to be be below.
THE REAL PROPERTY.			and the street of state of the
1			
1		17/13	
The state of the s			(04 marks)
26.	(a) Using a ruler, a pencil and a pair of	comp	basses only, construct a rhombus WXYZ
BANK TO	such that WX = 6cm and angle WXY = 1	20°.	
(b)	Measure diagonal WY.		
10)	medale diagonal		
			(05 marks)
27.	(a) Use a dial to work out;	(p)	Today is Monday. What day of the
	2 + 6 = (mod 7)		week was it 130 days ago?
1		The latest	In a second



28.	A family started their lunch at 12:45pr		
(a)	Express this time in 24 hour clock system,	m. (b)	If they took 50 minutes on lunch, represent the time they finished lunch on the clock face below.
29.	(a) Change 0.2121into a vulgar	(b)	(05 marks) Work out; 0.36 - 0.12
	fraction.		0.2 x 0.12 (05 marks
0.	Study the cube below and answer que	estions	that follow.
	(w + 3)m	(a)	Find the value of w.
b)	Work out the total surface area of th	e cube	
			(05 ma

31.	(a) If $a = 5$ , $b = 2a - 1$ and $c = b+2$ , find the value of $a+b+c$	(b)	Work out; p <sup>2</sup> x p
	5		p4
	Commendation with the residence of the second		
		1	
2.	In a school store, there are 14 spades Using a radius of 3.5cm, represent this	2Cila	(05 mari
	Using a radius of 3.5cm, represent this chart.	is inorr	mation on an accurately drawn pie-
1			
	E	ND	(05 mar