

BROAD EXAMINATIONS®

P.7 MATHEMATICS EXAMINATION END OF TERM I 2024

andidate's Name			
Candidate's Signature			
District Name:		,	
Read the following instructions carefully:			
1. This paper is made up of two sections: A and B.	FOR EXAMINERS' USE ONLY		
2. Section A has 20 questions (40 Marks)	PAGES	MARKS	SIGN
3. Section B has 12 questions (60 Marks)	Page 2	MARKS	DI GI
4. Answer ALL questions in both sections A and B .	Tage 2		
5. All answers must be written in the space provided in	Page 3		
blue or black ball point pens and ink. Only diagrams			
should be done in pencil.	Page 4		
6. Unnecessary crossing of answers will lead to loss of marks.	Page 5		
7. Any handwriting, which cannot be easily read, may lead to loss of marks.	Page 6		
8. Do not fill anything in the boxes indicated for	Page 7		
Examiners' use only.	Page 8		
	TOTAL		
Teacher's comment to the learner			
	Approved b		

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Team Head Mathematics Department

SECTION .A. (40 Marks)

1.	Multiply: 1 2x 3	2.	Find the value of 3 tens.
3.	Draw bundles to represent 84.	4.	A set has 3 elements. How many proper subsets can be obtained from the set?
5.	In the operation 13 = 7, find the missing number.	6.	Find the first two equivalent fractions of $\frac{3}{5}$.
7.	Work out the additive inverse of 7.	8.	Express the product of 400 and 15 in standard form.
9.	Joan is 9 years old, Jane is 12 years old and Sarah is as old as Joan. Find the average age of the three girls.	10.	A watch loses 10 seconds every hour. How many minutes does it lose a day?

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Using a pencil, a ruler and a pair of compasses, construct a right angle in the space below.	12.	A teacher withdrew a bundle of ten thousand shillings notes numbered consecutively from AD 4080367 to AD 4080416. How much money did he withdraw?
Round off 468 to the nearest tens.	14.	Given that $n(A) = 20$, $n(B) = 17$ and $n(A \cup B) = 27$, find $n(A \cap B)$.
Two numbers are in the ratio 3:4. Given that their LCM is 48, find their GCF.	16.	Express $\frac{13}{5}$ to a mixed number.
When a die is tossed once, what is the probability that a prime number will show up?	18.	If 4kg of sugar cost sh.24000, find the cost of 21/2kg of sugar at this rate.
		high are divisible
Using a ruler and a pair of compasses only, bisect the acute angle below.	20.	Circle the numbers which are divisible by 3 from the list below. 210, 34, 69, 116
The same of the sa	Round off 468 to the nearest tens. Two numbers are in the ratio 3:4. Given that their LCM is 48, find their GCF. When a die is tossed once, what is the probability that a prime number will show up?	Round off 468 to the nearest tens. 14. Two numbers are in the ratio 3:4. Given that their LCM is 48, find their GCF. When a die is tossed once, what is the probability that a prime number will show up? 18.

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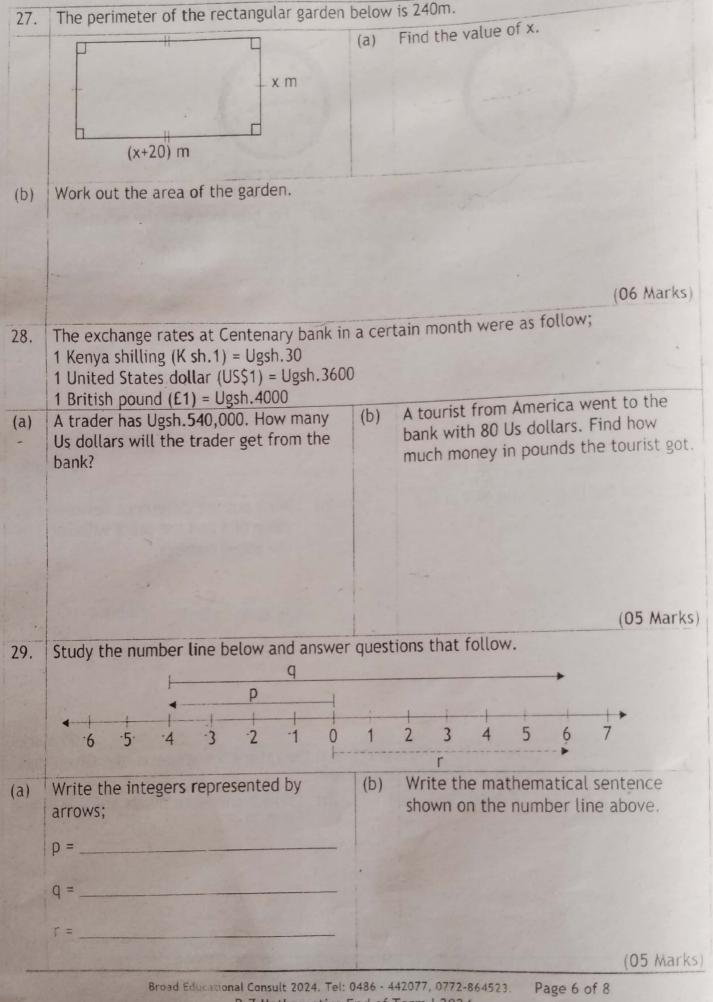
	SECTION	.B. (6	O-MARKS)
21.	(a) Simplify: $\frac{3}{4} - \frac{4}{5} + \frac{1}{2}$	(b)	Work out: $\frac{3}{10} + \frac{1}{4} \div 1\frac{1}{4}$
			(06Marks)
22.	At a party attended by some guests, 3k a	te me	eat only, (2k - 3) ate G.nuts only, 16 ate
(-)	both meat and G.nuts while k ate none o	the	Given that 72 guests ate only one kind
(a)	Represent the above information on the venn diagram below.	(D)	of sauce, find the value of k.
	E = G.nuts		
	14	1000	The state of the s
	(16)k		DO HEAT WAY SERVICE TO THE SERVICE OF THE SERVICE O
903	Box 00015 (\$2.10) ASP (* 52.21) (\$2.10)		Tiphe 9 are people who self it
	Metalin sevent in the violation		(05Marks)
23.	(a) Express 54 as a product of its prime factors.	(b)	Study and complete the factor tree below:
			2 15
			5
1		17 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(S)

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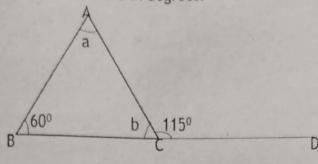
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24.	The clock faces below show the starting a the afternoon.	and en	ding time of a debate that was held in
	10 12 1 10 2 9 3 8 4 7 6 5	10 9 -	1 12 1 2 3 4 4 7 5
	Starting time	En	ding time
(a)	At what time did the debate; (i) start?	(b)	For how long was the debate?
	(ii) end?		
	fl or snow act sina, final senual a addi-		GROUP OF A STATE OF THE STATE O
25.	Given the number 4320.		(04 Marks)
(d)	Find the place value of 4 in the number.	(b)	Work out the difference between the value of 4 and the place value of 3 in the above number.
6.	The number of pupils in P.7, P.6 and P.5 there are 90 pupils in P.6 and P.7	is in t	he ratio 4:5:6 respectively. Given that
a) [Find the number of pupils in all the three classes.	ther; (b)	How many more pupils are in P.5 than in P.7?
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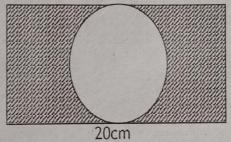


P.7 Mathematics End of Term | 2024 FOR ACADEMIC EXCELLENCE, AVOID MISSING BROAD HOLIDAY PACKAGES, WORK BOOKS & PAST PAPER BOOKLETS 30. The figure below shows a triangle ABC and straight line BCD. Find the size of the angles marked a and b in degrees.



(04 Marks)

31. The figure below shows a circle inscribed in a rectangle. Study and use it to answer the questions that follow.



14cm

(a) Find the area of the circle. (Take $\pi = \frac{22}{7}$)

(b)

Work out the area of the shaded part.

(06 Marks)

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