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	Visakha Vidyalaya – Colombo 05					
	First Term Test – 2022					
A ANAYA PARISUJJUNI	Grade 7	Mathema	tics	Time : $2\frac{1}{2}$ hours	>	
Name / Index Nu	mber :				•••••	
* Answer all	questions on this J	Part I paper itself.				
1. Write the n	umber of axes of s	ymmetry of the follow	ving figures.			
2. Write 20 (i) in stat	00456790 tdard form					
(ii) in wo	rds					
3. <i>P</i> is the s diagram.	et of prime numb	pers between 0 and 1	0. Represen	t the elements of set P in	n a Venn	
4. The numbe	r 41 2 is divi	sible by 9. Find the su	iitable digit f	or the empty space.		

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 5. Simplify. (i) (+8) + (-10) 	2
(ii) (-6) + (-8)	
6. Write all the factors of 54.	
7. Write 128 as a power of 2.	
 From the following years select the lea 	ap years.
(i) A.D. 1200	(ii) A.D. 1924
(iii) A.D. 1800	(iv) A.D. 1998
9. Name 2 pairs of parallel lines of the given by the giv	ven figure. P Q S R Q
10. Find the H.C.F. of 6 and 15 by writing	; factors.

11. If $a = 2$ and $b = 5$, find the value of $a^2 b$.
12. What type of angle is formed clockwise between North and South east?
13. Write the suitable value for the blank. $+(-8.5) = (-4.7)$
14. Write 60 as a product of prime factors.
15. Name the arms and the vertex of the given angle. $A > C$
B
16 Select the numbers divisible by 3, 4, 6 and 9
(i) 180 (ii) 582 (iii) 718 (iv) 216
17. 2 holls ring at intervals of 2 minutes, 5 minutes and 6 minutes respectively. If they all ring together
at 6.00 a.m. at what time will they ring together again?

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18. Write $2 \times x \times y \times x \times y \times 2$ in index notation.

19. Nimali came home at 3.08 p.m. Write this time in international standard form.

20. Fill in the balanks.

- (i) If the magnitude of an angle does not change, then it is in nature.
- (ii) Two parts that are in either sides of the axis of symmetry of a bilaterally symmetric figure are equal in and area.

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*	Part II					
	Ansv	ver an the questions.				
1.	(a)	 (i) Write all possible ways of writing 24 as a product of 2 factors. (ii) Write all factors of 24. (iii) Write 48 as a product of prime factors. 	(2 marks) (2 marks) (2 marks)			
	(b)	Find the H.C.F. of 12, 24, 36 using the method of division.	(2 marks)			
	(c)	Find the L.C.M. of 12, 24, 36				
2.	Ama	aya's date of birth is 2010.04.02. Her sister Nathali's date of birth is 2000.08.13.				
	(i)	To which decade does Nathali's date of birth belong ?	(1 mark)			
	(ii)	To which century does Amaya's date of birth belong ?	(1 mark)			
	(iii)	How much older is Nathali than Amaya ?	(2 marks)			
	(iv)	Amaya's mother is 25 years 8 months 25 days elder than Amaya. Find the date of				
	(v)	Amaya's mother ? (Amaya's father was born in 1978. Name the members of Amaya's family who birth	2 marks)			
	(vi)	in a leap year ? () Indicate 225 days in months and days. ()	(2 marks) (2 marks)			
3.	(a)	Find the value of the following using the number line				
		(i) $(-5) + (-3)$	(2 marks)			
		(ii) $(-4) + (+1)$	(2 marks)			
	(b)	Simplify.				
		(i) $(-9) + (+5)$	(1 mark)			
		(ii) $\left(+\frac{3}{7}\right) + \left(-\frac{1}{7}\right)$	(1 mark)			
		(iii) $(+\frac{1}{5}) + (-\frac{1}{5})$	(1mark)			
		(iv) $(-3.88) + (5.23)$	(1 mark)			
	(c)	Y is the set of integers between -3 and 2. List out the elements of set Y in curly brack (ckets. (2 marks)			
4.	(i)	Find the value and the power when base and index of 2^3 is changed with one another				
	(ii)	Write 56 as a product of power of prime factors.	(3 marks)			
	(iii)	Find the value of $5^2 \times 2^2$.	(2 marks)			
	(iv)	If $x = 3$ and $y = 4$ find the value of $2x^3b^2$.	(3 marks)			

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5.	(a)	The fixed fare of a taxi service is Rs. 200 and Rs. 60 will be charged for 1 km.			
		(i)	Write down a mathematical expression for the amount paid by Kasun who travelled 25 km by the taxi.	(2 marks)	
		(ii)	Find the amount Kasun should pay for the taxi by simplifying the above expression.	(2 marks)	
	(b)	Simplify.			
		(i)	$30 \times 10 \div 5 \times 2$		
		(ii)	$20 - 3(7 + 1) \div 6$	(2 marks)	
	(c)	Classify the following angles according to their magnitudes.			
			180° 200° 315° 45° 85°	(3 mark)	
6.	(a)	(i)	Draw a triangle and name it as <i>ABC</i> .	(1 mark)	
		(ii) Draw a parallel line to AB passing through C using a ruler and			
		a set square. (2 mark			
		(iii) Draw a parallel line to BC passing through A as above and name the intersection			
		(iv)	Write a suitable name for the quadrilateral <i>A BCD</i> .	(1 mark)	
	(b)	Draw (i) (ii)	w the following angles using protractor. $X\hat{Y}Z = 125^{\circ}$ $P\hat{Q}R = 310^{\circ}$	(1 mark) (2 marks)	
