සියලූම හිමිකම් ඇවිරිං	கீ/ முழுப் பதிப்புரிமையுடையது / All Rights reserved						
වයඹ පළාත් අධාාපන දෙප	^{රතමෙන්තුව බාடගෙන් unariam යන්බර් නිකාශ්ෂයාව Department of Provincial Education - NUVP අය හ වියුති පළාත් අධානපත දෙපාර්තමේන්තුව}	2017 டிபிலாகாண கல்வித் கல்வித் கல்வித்					
වයඹ දිසින් දිසි සාපන දෙප වයඹ දිසි සි සාපන දෙප	ுைக்கு வடமேல் மாகாண களவத் தணைகளாம் மாமாராப்பாலாளு மாயியார் ™ு 2500 கே கோது காண்கு வடமேல் மாகானு மல்போல்லாறாகாணாக் ம கூல்லின் ்பு கிணைருக்கவு	ොත අධානපන දෙපාරතමෙනතුව බැட ගෙන ගැකැഞා සහඛාිදු ගත් අධානපන දෙපාර්තමේන්තව බැட ගෙන් ගැකැഞා සහඛාර්ඝ					
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Grade 8	First Term Test - 2019	86 E					
	Mathematics I	2 hours					
Important :	 Answer all questions Each question will be given by 2 marks 	Name					
	Part I						

(01) Find the general term of the number pattern, 3,6,9,12,

(02) Simplify
$$\frac{1}{5} + \frac{2}{5}$$



(05) Simplify -8-(-5) (06) Solve x-2 = 8

(07) If 900 = 2x2x3x3x5x5, Find the value of $\sqrt{900}$

(08) Simplify 1.02 x 100

(09) Find the least common multiple (LCM) of 3,4 and 6

(10) Simplify 2 (3x-1)

(11) The mass of a bulk of vegetables is 1050 kg. Express it in metric tons.

(12) Find the value of x $(2x5)^{x} = 2^{2}x5^{x}$

(13) Factorize ax + 2a

- (14) Consider the solid which can be made by combining two of the given nets
 - i. What is the name of the solids?
 - ii. How many faces are there in that solid?



(15) Find the area of this rectangle



(16) A = { even numbers between o and 10 }Represent this set in a venn diagram

(17) Find the value of x



- (18) The price of 600 g sugar is Rs. 60. Find the price of 1 kg of sugar
- (19) Centre of a circle is "o" and "A" is a point on the circle. If OA = 8cm find the length of the diameter of the circle.
- (20) Write $\frac{2}{5}$ as a percentage

Part - II



16 marks will be given for the 01 question and 11 marks for the other questions.

(01) Remind the activity that you have done relevant to the lesson " solids" with the guidance of your maths teacher.

i. Write down the Euler's relationship between the edges, vertices and faces of a solid.	(3 marks)
ii. Name a solid that you have made and verify Euler's relationship for that solid.	(3 marks)
iii. Draw a shape of a face of a regular tetrahedron and write it's name	(3 marks)

- iii. Draw a shape of a face of a regular tetrahedron and write it's name
- iv. Write two other names of the platonic solids that you can make using the shape above.
- v. Write the name of the solid which is made using the faces of octahedron and faces used to make a cuboid Draw a diagram of the said solid. (4 marks)



(04) a) 25 t of rice is stored in a rice storage.

> If that rice was packed into packets of 10 kg. Find how many packets will be there. i.

(3 marks)

(3 marks)

ii. If that rice was transported using trucks which has the maximum weight limit of 2000 kg. How many trucks will be needed to transport the rice. (2 marks)



(c) Find the perimeter of the figure given

(06)

(07)



(05)	(a)	A vendor sold x amount of mangoes from a stack of mangoes for Rs. 10 each. After that he sold
		another 3 mangoes for the same price.

(i) Write an algebraic expression to represent the number of mangoes he sold.(ii) Write an expression to find the amount he made by selling above	(2 marks)					
mentioned mangoes using brackets and simplify it.	(3 marks)					
(b) Simplify $2(x-2y) - 5x + 6y - 1$	(3 marks)					
(c) Find the value of the algebraic expression $5x (3y-1)$ when $x = -2$, $y = 3$	(3 marks)					
 (a) In the number pattern 1,3,5 (i) Write next two terms (ii) What is the general term? (iii) Which term is 45? 	(2 marks) (3 marks) (2 marks)					
(b) Simplify						
(I) $\frac{2}{5} + \frac{3}{10}$ (ii) $\frac{1}{6} + \frac{1}{3}$						
(2 marks) (2 marks)						
(a) Factorize the following expressions						
(i) 4x - 20 (2 marks) (ii) 6a + 3ab (2 marks)						
(b) Simplify (i) $\frac{x^3 x x^8}{x^9}$ (2 marks) (ii) $(x^2 y^3)^2$ (1 marks)						
(c) (i) Find the HCF of 6x and 8x (2 marks)						

(i) Find the HCF of 6x and 8x(2 marks)(ii) Hence find the factors of 6xy - 8x(2 marks)

	First Term Test - 2019 Mathematics Answer Sheet								
Q.No.	Answer	Marks	Pa Total	rt I Q.No.	Answer	Marks	Total		
01	3n		02	17	$x = 45^{\circ}$		02		
02	$\frac{3}{5}$		02	18	100 g Rs.10 Rs. 100/=	01 02			
03	(7 x 2 +5 x 2 +3 x 2) 30 cm	01	02	19	16 cm		02		
04	35 [°]		02	20	$\frac{2}{5}$ x 100%	01			
05	-8+5 -3	01	02		<u>40</u> %		02		
06	x - 2 + 2 = 8 + 2 x = 10	01	02						
07	$2 \times 3 \times 5 = 30$	01	02						
08	102		02						
09	12		02	-					
10	6x - 2		02						
11	$\frac{1050}{1000}$	01							
	1.05		02						
12	2		02						
13	a (x+2)		02						
14	i. octahedron ii. 8	01 01	02						
15	3 x8 24cm ²	01	02						
16	A 2 4 6 8		02						

	First Term Test - 2019								
Mathematics									
Gr	Grade 8 Answer Sneet								
Q.No.	Answer	Marks	Total marks	Q.No	Answer	Marks	Total marks		
01	i. Faces + vertices = edges + 2	03		05	(a) <i>i</i> . $x + 3$	02			
	ii. naming verifying	01 02			<i>ii.</i> 10 $(x + 3)$ 10 $x + 30$	02 01			
	iii. equilateral traingle	03			(b) $2x - 4y - 5x + 6y - 1$ -3x - 4y - 1	02 01			
	iv. Regular tetrahedron Dodecahedron	03			(c) $5 x (-2) (3x 3 - 1)$ -10 x 8	02			
	v. Drawing figure	03			-00	03	11		
	$\frac{1}{25^{\circ}}$	01	16	06	(a) i. 7,9	02			
02	I. 55	02			ii. 2 n	02			
		02			2n - 1	01			
	in FÔC	02			iii. 2n - 1 = 45	02			
	v. 10 [°]	02	11		$\frac{2n}{2} = \frac{46}{2}$				
03	(a) i. $x^2 y^2$	02			n = 23				
	(b) i. 4+ (+2) 6	02 01			(b) i. $\frac{4}{10} + \frac{3}{10}$	02			
	ii. $\frac{-28}{-2}$	01			$\frac{7}{10}$				
	14	01				02			
	(c) i. $72 = 2 \times 2 \times 2 \times 3 \times 3$	01			$\frac{1}{6} + \frac{2}{6}$				
	$50 = 2 \ge 5 \ge 5$	01			$\frac{1}{2}$		11		
	ii. $\sqrt{2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 5 \times 5}$	01		07	(a) i. 4 (x-5)	02			
	60	01	11		ii. 3a (2+b)	02			
04	(a) i. $\frac{25000}{10}$	02			(b) i. $\frac{x^{11}}{x^9}$				
	2500	01			X ²	02			
	ii. 13	02			$ii v^4 v^6$	01			
	(b) i. 10 cm	02							
	ii. 15 cm	02			(C) 1. 2X	02			
	(c) i. 44 cm	02	11		ii. 2x (3y - 4)	02	11		