නාලන්දා Colllege 6	විදහාලය, කොළඹ 10 Nalanda College,Colombo 10 නාලන්දා විදහාලය, කොළඹ 10 Nalanda College,Colombo 10 නාලන්දා විදහාලය, කොළඹ 10 Nalanda
connege කාල Collie කොළ නාලz Collie කොළ නාලz Collies කොළඹ 1	Nalanda College – Colombo 10       المالم         Revelation Test - 2020       Nathematics         Mathematics       المالم         Grade - 8       Time : 2 hours         0 Nalanda College, Colombo 10 താලත්දා විද්යාලය, කොළඹ 10 Nalanda College, Colombo 10 තාලත්දා විද්යාලය, කොළඹ 10 Nalanda College, Colombo 10 තාලත්දා විද්යාලය, කොළඹ 10 Nalanda College, Colombo 10
Name	: Class : Index No :
	<u>Part - I</u>
• (1)	Answer all the questions. Represent $\frac{18}{7}$ as a mixed number.
(2)	Write 0.16 in fraction and express it in the simplest form.
(3)	Solve x + 7 = 20
(4)	Write the reciprocal of $1^1_4$
(5)	Express 12 % as a fraction.
(6)	Find the value of $(-7) - (-5)$ by using the number line -8 -7 -6 -5 -4 -3 -2 -1 0 1 2

(7)	$24 \div 3 = 24 \text{ x}$ Fill in the blank.
(8)	Write down the Euler's Relationship for the Octahedron.
(9)	If $a = -4$ , $b = 3$ then find the value of $a(2b - 1)$
(10)	Arrange in ascending order. $(-3)^2, (-1)^2, 2^3, 10^2$
(11)	In a parallelogram,(i)number of axis of symmetry ?(ii)number of order of rotational symmetry ?
(12)	Write 324 as a product of its prime factors.
(13)	Simplify 5 ( x – 2y ) – x – y
(14)	If the area of a square is 196cm <sup>2</sup> , Find the side length ?



## <u> Part - II</u>

- Answer the first question and 04 other questions.
- First question carries 16 marks and other questions carry 11 marks each.

(1) (a) Following activity performed by the students in the "Triangles and Quadrilaterals " lesson.



(16 marks)

02.	(a) Simplify (i) $\frac{5}{12} - \frac{3}{8}$	(02 marks)
	(ii) $\frac{3}{20} - \frac{5}{6}$	(02 marks)
	(iii) $1_3^2 \div \frac{5}{8}$	(02 marks)
(b)	How many 250 g packets can be made out of $24^{1}_{2}$ kg tea leaves ?	(02 marks)
(c)	The diagram shows a $10\frac{1}{2}$ m length strip on cloth. How many pieces of length $1\frac{1}{2}$ m c from the cloth 2 As shown in the diagram	an be cut

(03 marks)

(11 marks)

(3) (a)	) (I)	Write $2^1_5$ as a decimal number.	(02 marks)
	(II)	Simplify 54.32 <u>x 1.5</u>	(02 marks)
	(III)	===== Simplify 5.04 ÷ 2.4	(02 marks)
(b	) (I)	When x is subtracted from 10 and multiply the answer by 3, the result is 6. Construct a simple equation and solve it.	(02 marks)
	(II)	Solve the equation $\frac{1}{5}(2x-1)+3 = 10$	(03 marks)
(4) (a	) If the	e length, breadth and height equal to 20 cm, 15 cm and 10 cm respectively.	(11 marks)
(b	) b) 10 m	the total surface area of the cuboid shape box without the lid. $F = \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ - \left( \begin{array}{c} 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ - \left( \begin{array}{c} 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\ - \left( \begin{array}{c} 0 \\ 0 \end{array} \right)^{-4m} - \left( \begin{array}{c} 0 \\$	
	(I)	Find the area of BCD triangular region.	(02 marks)
	(II)	Find the area of ABDE square shape region.	(02 marks)

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	(III)	) Find the area of shaded region.			(02 marks)
	(IV)	If gras	s is pla	anted in the shaded region, Find the are of remaining part ?	(02 marks)
					(11 marks)
(5) (a)	Build	a conti	nued ra	atio.	
		А	В	C	
		2		3	
			5	4	(02 marks)
				===	
(b) Kamal and Nimal shared some money in the ratio 7 : 5 . When Kamal received Rs. 2100, how				how much	
(b)	Kamal	l and Ni	mal sh	hared some money in the ratio $7:5$ . When Kamal received Rs. 2100	, now much
(b)	Kamal money	l and Ni y Nimal	mal sh receiv	nared some money in the ratio 7 : 5 . When Kamal received Rs. 2100 yed ?	, now much
(b)	Kamal money	l and Ni y Nimal	mal sh receiv	nared some money in the ratio 7 : 5 . When Kamal received Rs. 2100 yed ?	, now much
(b)	Kamal	l and Ni y Nimal	mal sh receiv	nared some money in the ratio 7 : 5 . When Kamal received Rs. 2100 red ?	(02 marks)
(b) (c)	Kamal money Amara later b $\frac{1}{10}$ wa	l and Ni y Nimal a starts a by invest as spent	mal sh receiv a busin ting Rs on the	hared some money in the ratio 7 : 5 . When Kamal received Rs. 2100 red ? hess in January 1 <sup>st</sup> by investing Rs. 45,000. Sarath joins the business s. 75,000. The profit from the business at the end of the year was Rs. e maintenance of the business and rest was shared between among the	(02 marks) three months 100,000. em.
(b) (c)	Kamal money Amara later b $\frac{1}{10}$ wa (I)	a starts a y Nimal a starts a y invest as spent How r	mal sh receiv a busin ting Rs on the nuch n	hared some money in the ratio 7 : 5 . When Kamal received Rs. 2100 red ? hess in January 1 <sup>st</sup> by investing Rs. 45,000. Sarath joins the business s. 75,000. The profit from the business at the end of the year was Rs. e maintenance of the business and rest was shared between among the noney spent for maintenance ?	(02 marks) three months 100,000. em. (02 marks)
(b) (c)	Kamal money Amara later b $\frac{1}{10}$ wa (I) (II)	l and Ni y Nimal a starts a by invest as spent How r Find th	mal sh receiv a busin ting Rs on the nuch n	hared some money in the ratio 7 : 5 . When Kamal received Rs. 2100 red ? hess in January 1 <sup>st</sup> by investing Rs. 45,000. Sarath joins the business s. 75,000. The profit from the business at the end of the year was Rs. the maintenance of the business and rest was shared between among the noney spent for maintenance ?	(02 marks) three months 100,000. em. (02 marks) (03 marks)

(6) (a)	(I)	45 minutes from 1 hour, express as a percentage.	(02 marks)				
	(II)	II) Out of 20 questions of a child who answered a question paper, 13 were correct. Fi percentage of correct answers.					
			(02 marks)				
	(III)	Write the corresponding ratio for $2\frac{1}{2}$ %	(02 marks)				
(b)	Out of Other	Out of 600 people live in a village, 20% watch educational programs and 65% watch teledramas. Other watch the news broadcast.					
	(I)	Indicate the number of news viewers as a percentage.	(02 marks)				
	(II)	Find the amount of teledrama viewers ?	(02 marks)				
	(III)	How many people watch educational programs than news viewers ?	(01 marks) (11 marks)				
(7) (a)	(I)	A = { the digits in the number 13278 } Listing the elements within brackets.	(02 marks)				
	(II)	Write the value of n (A)	(02 marks)				
(b)	Fill in the blanks using the appropriate symbols.						
(c)	<ul> <li>(I) 5 { 2 , 3 , 5 , 7 }</li> <li>(II) 1 { prime numbers }</li> <li>B = { polygons with less than three sides } ,</li> <li>Write set B in another way.</li> </ul>						
							(b) \ \