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PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE

SECOND TERM TEST 2019 MATHEMATICS

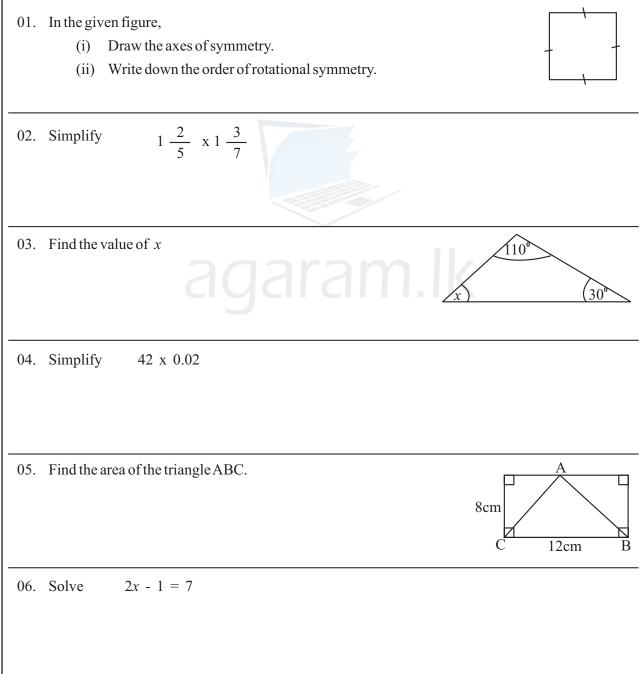
Grade 08

Two hours

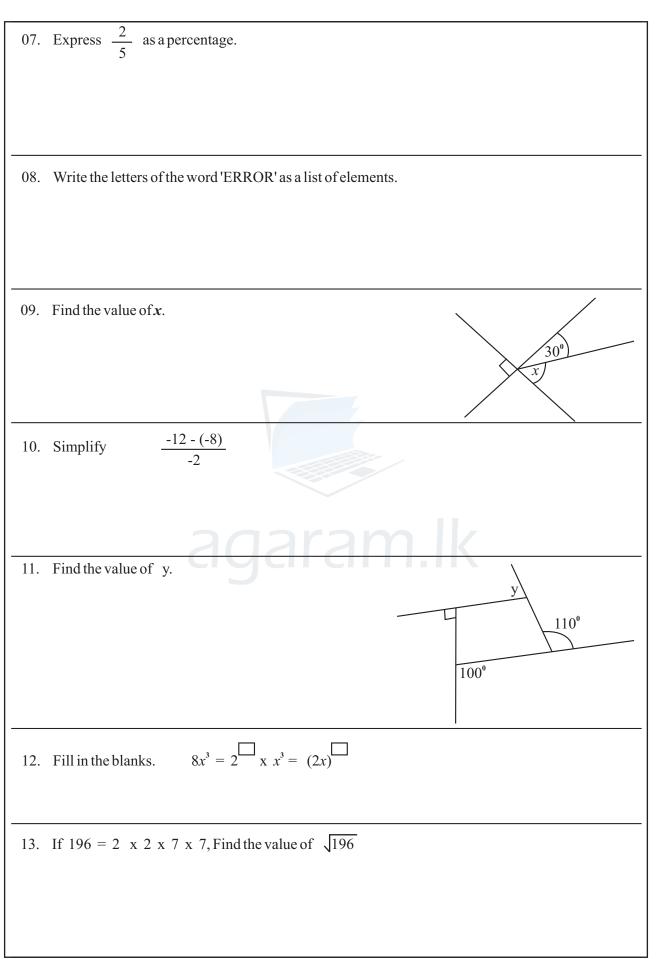
Name / Index No. :

PART - I

- Answer the question from 01 20 on the paper itself.
- Each question in Part I carries 2 marks.



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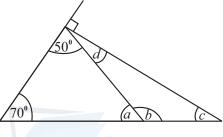
14.	A and B divide some money in 3 : 1 ratio write the amount A gets as a fraction.						
15.	Find the value of $(-3)^3$						
16.	Simplify t kg 2 200						
	+ 1 950						
17.	Find the highest common factor of $3a$, $12ab$						
18. Simplify 2 - 1 ³ /4 agaram.lk							
19.	(i) Express 0.6 as a fraction.						
	(ii) Express 0.6 as a percentage.						
20.	The L.C.M. of the numbers in 1st and 2nd circles are written in 3rd circle.						
	1st circle 2nd circle 3rd circle 3 4 12						
	Accordingly, write 2 appropriate numbers to obtain 20 1st circle 2nd circle 3rd circle as L.C.M. for the 1st and 2nd circles. 20 20						
	03						

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PART - II

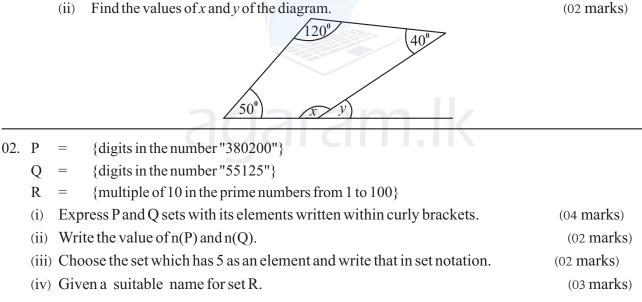
- Answer 1st question and 04 other questions.
- First question carries 16 marks and all the other questions carry 11 marks each.
- Recall the activity you did in the class in order to find the sum of the interior angles of a triangle. 01. (a) Draw a rough diagram to show the way you pasted the three interior angles of a triangle. (i) (03 marks)
 - (ii) Draw a rough diagram to show the way you pasted the four interior angles of a quadrilateral.
 - (03 marks) (iii) "The sum of the interior angles of a quadrilateral = 2 x the sum of the interior angles of a triangle"
 - verify the above relationship using the answers of (i) and (ii) above. (04 marks)
 - (b) (i) Find the value of a, b, c and d of the given diagram.



(02 marks)

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(04 marks)



03. (a) The figure shows a vegetable garden consist with 12m В ABCD rectangular shaped part and BCE triangular shaped part. 5m Find the area of the part ABCD. (i) (02 marks) If the area of BCE is $\frac{1}{3}$ of the area of ABCD. Find the length of CE. (03 marks) (ii) D С

(iii) Find the total area of the land used to grow vegetables. (02 marks)

(b) Draw a rough diagram of a cube with the length of a side 5cm and calculate the surface area of it. (04 marks)

04



MATHEMATICS

04. (a) Simplify

(i) $\frac{7}{10} \ge 5$	(02 marks)
(ii) $3\frac{3}{4} \times 2\frac{2}{3}$	(02 marks)
(iii) $\frac{3.2 \ge 0.25}{0.8}$	(03 marks)

- (b) If the area of the rectangle is $2\frac{4}{7}$ m² and its length is $1\frac{2}{7}$ m. Find the breadth of this rectangle. (04 marks)
- 05. (a) The price of a chocolate is Rs. 50 more than the four times of the price of an ice cream. The price of 2 chocolates and 4 ice creams is Rs. 400.
 - (i) If the price of an ice cream is Rs. x, find the price of a chocolate in terms of x. (02 marks)
 - (ii) According to the above details, build up an equation with x and solve it. (05 marks)
 - (iii) Find the price of a chocolate. (02 marks)

(b) Factorize

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- 4*x* 12
- 06. (a) Rs. 9500 of money was divided among A, B and C. The ratio in which if was divided between A and B is 3 : 2 and between B and C is 3 : 2.
 - (i) Find the ratio in which the money was divided among A, B and C. (03 marks)
 - (ii) Find the amount of money A receives as a fraction out of the total amount. (02 marks)
 - (iii) Calculate the amount each person recieve separately. (04 marks)
 - (b) To make a certain sweet 200g of sugar, 500g of flour and 100g of margarine is used. Find the ratio of sugar to flour to margarine in the simplest form. (02 marks)
- 07. (a) Express each of the following as a percentages.
 - (i) $\frac{2}{5}$ (02 marks) (ii) $2\frac{1}{4}$ (03 marks)
 - (b) Saman took a loan of Rs. 12000 from a bank. He had to a Rs. 2400 as the interest at the end of a year.
 - (i) Express the interest as a percentage of the loan. (02 marks)
 - (ii) If Kumar intend to take a loan of Rs. 50000 from the same bank. Find the interest he has to pay at the end of 1st year. (04 marks)

(02 marks)

05



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SECOND TERM TEST 2019 Answer Sheet

MATHEMATICS

Answer Sheet							
	Part - I						1
01.	(i)	01		20.	1st circle 2nd circle 3rd circle 4 5 20	02 or 0	
	(ii) 4	01	02				40
02.	$\frac{7}{5} \times \frac{10}{7}$	01					40
	2	01	02		Part - II		
03.	$x + 30^{\circ} + 110^{\circ} = 180^{\circ}$ $x = 40^{\circ}$	01 01	02	01.	(a) (i)		
04.	$42 \ge 2 = 84$ 0.084	01 01	02		$x + y + z = 180^{\circ}$	03	
05.	$\frac{1}{2}$ x 12 x 8	01			a b/		
	$=48 \mathrm{cm}^2$	01	02		d c		
06.	2x = 8 $x = 4$	01 01	02		$a + b + c + d = 360^{\circ}$		
07.	$\frac{2}{5} \times 100\% \qquad \frac{2}{5} \times \frac{20}{20}$	01			(ii) $\begin{pmatrix} a & b \\ d & c \end{pmatrix}$	03	
08.	40% 40% {E, R, O}	01	02 02		(iii) $360^\circ = 2 \times 180^\circ$ $360^\circ = 360^\circ$	04	
09.	$x + 30^{\circ} = 90^{\circ}$	01			(b) (i) $a = 60^{\circ}$	01	
10.	$x = 60^{\circ}$ -12 + 8 = -4	01	02	Я	$b = 120^{\circ}$	01	
10.	$\frac{-4}{-2} = 2$	01	02		$d = 40^{\circ}$ $c = 20^{\circ}$	01 01	
	(i) $y + 90^{\circ} + 110^{\circ} + 100^{\circ} = 360^{\circ}$ (ii) $y = 60^{\circ}$	01 01	02		(ii) $x = 150^{\circ}$	01	
	$\frac{(1)^{3}}{2^{3}} \times x^{3}$	01			$y = 30^{\circ}$	01	
	$(2 x)^3$	01	02				16
13.	$196 = 2 \times 7 \times 2 \times 7$ ∴ $\sqrt{196} = 2 \times 7 = 14$	01 01	02				
14.	3 + 1 = 4	01	02	02.	(i) $P = \{0, 2, 3, 8\}$	02	
	$\frac{3}{4}$	01	02		$Q = \{1, 2, 5\}$	02	
15.			02		$\mathbf{R} = \{ \}$	02	
16.			02		(ii) $n(P) = 4$ n(Q) = 3	01 01	
17.	3 <i>a</i>		02		II (X) 5		
18.	<u> 1 </u>		02		(iii) Q	01	
19.	(i) $\frac{6}{10}$ or $\frac{3}{5}$	01			$5 \in Q$ (iv) Null set	01 01	
	(ii) $\frac{60}{100} = 60\%$	01	02				11
	(i) $\frac{6}{10}$ or $\frac{3}{5}$		02	1)	$5 \in Q$ (iv) Null set	01 01	



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		A	Answe	er She	eet		
03.	(a) (i) 12×5 $60m^2$ (ii) PCE A = $\frac{60}{20m^2}$	01 01 01			(b) $4 x x - 4 x 3$ 4(x - 3)	01 01	
	(ii) BCE $\Delta = \frac{60}{3} = 20m^2$ $\frac{1}{2}$ x CE x 5 = 20	01		06.	(a) (i) $A : B : C$		11
	$CE = \frac{40}{5}$ $= 8m$	01 01			3 : 2	01 01	
	(iii) $60 + 20$ $80m^2$	01 01			9:6:4	01	
	(b) Figure	01			(ii) $\frac{9}{19}$ (iii) $\frac{9500}{19} = 500$	02	
	$5 \times 5 = 25 \text{ cm}^2$	01			A - 500 x 9 = 4500 B - 500 x 6 = 3000	01 01	
	25×6 } 150cm ²	01 01			C - 500 x 4 = 2000(b) Sugar : Flour : Margarine	01	
04.	(a) (i) $\frac{7}{2}$	01	11		$200 : 500 : 100 \\ 2 : 5 : 1$	01 01	11
	$3\frac{1}{2}$	01		07.	(a) (i) $\frac{2}{5}$ x 100%	01	11
	(ii) $\frac{15}{4} \times \frac{8}{3}$	01			40%	01	
	(iii) $\frac{3.2}{0.8} = 4$	02			(ii) $\frac{-9}{4}$ $\frac{-9}{4}$ x 100%	01	
	(b) $2\frac{4}{7} \div 1\frac{2}{7}$	01			225%	01	
	$\frac{18}{7} \div \frac{9}{7}$ $\frac{18}{7} \times \frac{7}{9}$	01			(b) (i) $\frac{2400}{12000}$ x 100% 20%	01	
	$\frac{7}{7}$ $\frac{1}{9}$ $2m$	01			(ii) 50000 x $\frac{20}{100}$	02	
0.5			11		Rs. 10000/=	02	11
05	(a) (i) $4x + 50$ (ii) $2(4x + 50) + 4x = 400$	02 01					11
	$(11) 2(4x + 30) + 4x = 400 \\ 8x + 100 + 4x = 400$	01					
	12x = 300	02					
	<i>x</i> = 25	01					
	(iii) $4 \times 25 + 50$	01					
	Rs. 150	01		2)			

(02)

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