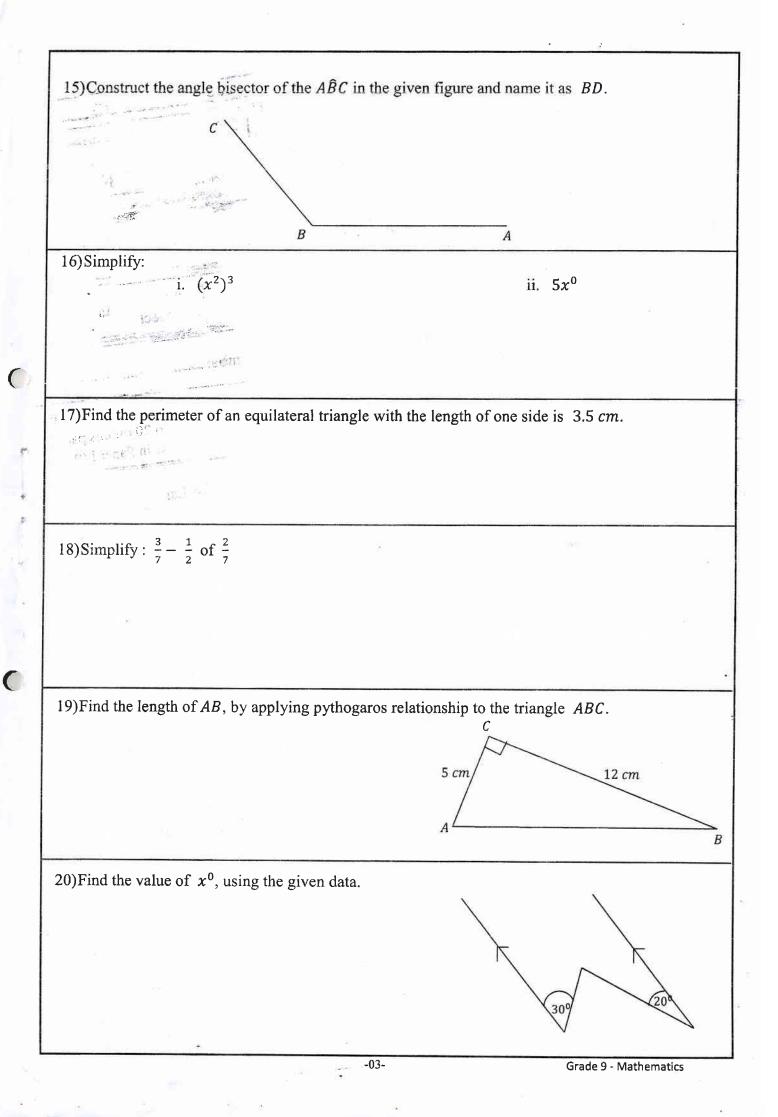
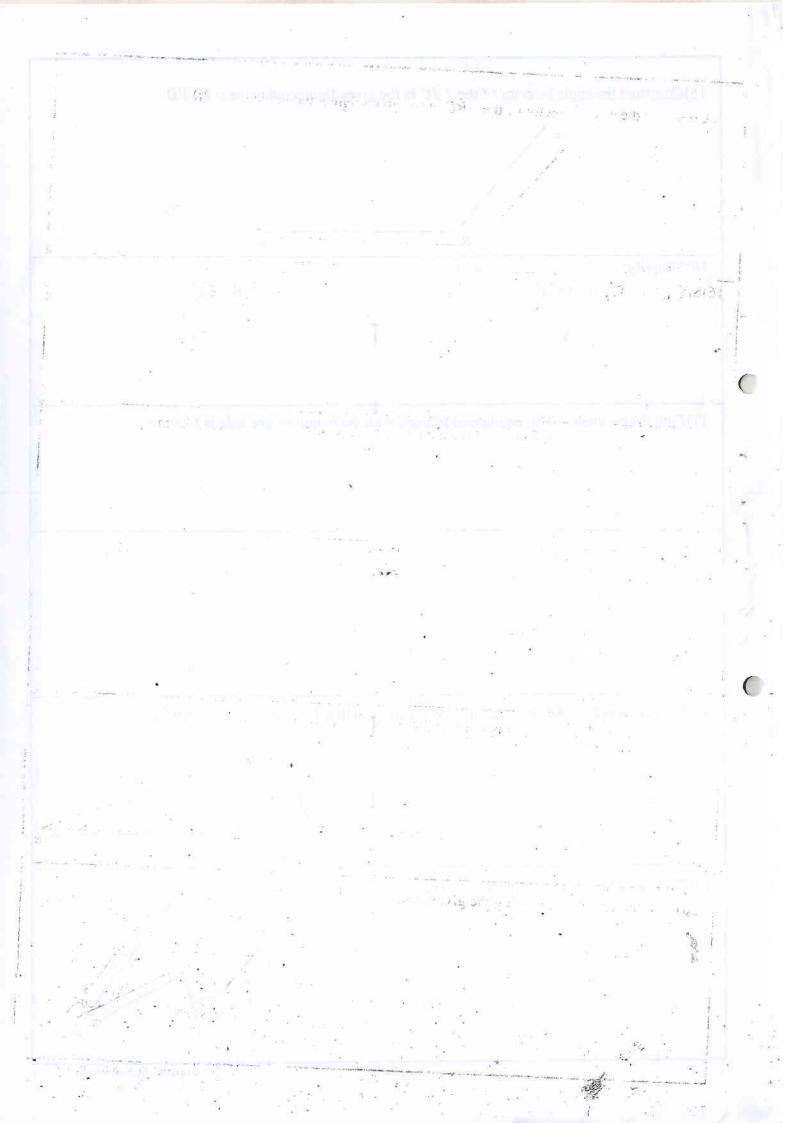
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ලේණිය Grade - 9 Sub	bject } Mathem	atics		කාලය Time - 02 Hou
Name/ Index Number		~~~		
ne de la composition de la composition de la composition de la compo		Paper I	2 - 1 (1 , - 1	Second Second Second
• Answer all questions fro	om 1 to 20 on this pa	 International Content 		
Each question carries 02			M Ind Attack 5 Soft	
		* 2		
The extent of land of S	ri Lanka is 65610 s	quare kilometers.	Write this num	ber in scientific
notation.		Di Aar		
Solve : $\frac{x}{5} - 5 = 5$	and the second			
5 5 5 - 5		1996 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Sec. 1	
An itom is houset have	a 1000 and14 '41	De 1160 D' 1	d	C.1 1
An item is bought by R	s.1000 and sold it l	by Rs.1150. Find	the profit percer	tage of the item.
An item is bought by R	s.1000 and sold it b	oy Rs.1150. Find	the profit percer	tage of the item.
An item is bought by R	s.1000 and sold it b	by Rs.1150. Find	the profit percer	tage of the item.
An item is bought by R	s.1000 and sold it b	by Rs.1150. Find	the profit percer	tage of the item.
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Price of 3 apples is Rs. Round off 9307 to the r	90. What is the pric	e of such 5 apple	s?	
Price of 3 apples is Rs. Round off 9307 to the r	90. What is the pric	e of such 5 apple	s?	

7) Find the value of $(-3)^3$. 8) Find the factor of : ax + bx - ay - by9) Expand and simplify: (a-5)(a+5)10) Subject 'x ' in the formulae y = mx + c. 11)Find the value of x^0 , using the given data in the quadrilateral. 140 x 80 12)A person is borrowed Rs.20000 as a loan to the 12% annual simple interest rate. After how many years he had to pay Rs.4800 as the interest? 13) Find the circumference of the circle with the radius 3.5 cm. (Take $\pi = \frac{22}{7}$) 14) The equation of a straight line is y = 3x - 2. Find i. The gradient ii. The intercept -02-Grade 9 - Mathematics





 First question ca 	estion and a		ar questic		es 11 m	urks		
• Write the answe								
1) Recall the activi	t y th at you l	nave done	for the l	esson Gra	ph in the	class room.		
(A) (a) The mass of	the box is	1 <i>kg</i> . The	box is p	acked by	parcels o	f the mass 2 k	<i>д</i> . г	14
i. If the total mass of the box with one parcel is $2 ka$, then find the total mass								$2 \times 1 + 1$ $= 2 + 1$
i. If the total mass of the box with one parcel is 3 kg, then find the total mass of the box with 2 parcels. (1 marks)							= 3 kg	
ii. When the	total mass	of box is	9 <i>kg</i> , fin	d the num	ber of pa	arcels in the bo	ox.	(2 marks)
(b) If the number that information	r of parcels to the follow	is x and wing table	l the tota	l mass of	the box	with parcels is	sy,th	ien include
(E)	x	0	1	2	3	4		
	у.,	1		·	7			
 ii. Represent iii. Draw the (c) Using the strait i. the gradient ii. the intercent iii. the equat straight line. 	graph of the ght line of t nt ept	function he above	on a suit graph, V	able Carte Vrite	sian pla	ne. ne origin, para	illel to	(2 marks) (3 marks) (1 marks) (1 marks) the above (3 marks)
		through the	a aaardi)	ria statili		
(B) In the straight i. Find the gr ii. Write the e	adient.			inates (0, 0	<i>))</i> and (<i>i</i>	2,6),		(2 marks) (1marks)
i. Find the gr	adient. equation in t ht angled tr on the hyp	he form y ingle. AD potenuse	x = mx. C is an AC . The	equilatera	l triangl	2		
 i. Find the gr ii. Write the e 2) (a) ABC is a rig which is drawn 	adient. equation in t ht angled tr on the hyp to cm and H ength of AC.	he form y ingle. AD potenuse BC = 8 cr	x = mx. C is an AC . The	equilatera	l triangler of the rks)	2		
 i. Find the gr ii. Write the e 2) (a) ABC is a rig which is drawn triangle ADC is 3 i. Find the le ii. Calculate (b) i. Write 2⁵ = 	adient. equation in t ht angled tr on the hyp 30 cm and H ength of AC. the length o = 32, in log	he form y ingle. AD potenuse BC = 8 cr f AB . arithmic f	x = mx. C is an AC. The n. Form.	equilatera perimeto (2 ma (2 ma (2 ma	l triangler of the rks) rks) rks)	2		
 i. Find the gr ii. Write the e 2) (a) ABC is a rig which is drawn triangle ADC is 3 i. Find the le ii. Calculate 	adient. equation in t ht angled tr on the hyp 30 cm and H ength of AC. the length o = 32, in log	he form y ingle. AD potenuse BC = 8 cr f AB . arithmic f	x = mx. C is an AC. The n. Form.	equilatera perimeto (2 ma (2 ma	l triangler of the rks) rks) rks)	2		

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Grade 9 - Mathematics

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ţ.	(c) write the suitable values for the blanks.	(3 marks)
	set and be estimate antidareasy affect task-adapted to a bibliotic task	i x l
	$\frac{2^5 \times 2^{[]}}{2^3} = \frac{2^7}{2^3} = 2^{[]} = []$	
	(a) A cubic shaped tank of a length of a side is $2m$, is completely filled with volume of water,	water. Th
	i. Write in cubic meter?ii. Write in liter?	(2 marks) (2 marks)
	iii. If 500 l of water used in one day, how many days can use that water in tank?	(3 marks)
. 4 ((b) Fill in the blanks : $3:5 = []:30$	(2 marks)
. ((c) How much Pakistan rupees can buy for 700 Sri Lankan rupees? (1 Pakistan rupee = 1.40 Sri Lankan rupees) 	(2 marks)
4)	(a) Find the factors. i. $a^2 - 36$ (2 marks) (b) Solve: $\frac{x+3}{2} = 5$	(2 marks
	ii. $x^2 + 3x - 70$ (3 marks)	
	(c) Solve the pair of simultaneous equations: 3x - 2y = 7 x + 2y = 5	(2 mar
	(a) In the given figure, it is given $A\hat{O}B = C\hat{O}D$. Using the A knowledge of axioms,	
	show that $A\hat{O}C = B\hat{O}D$. (3 marks) (3 marks)	\searrow
	С ———	\Rightarrow
	D	
3.1		
ľ	(b) In the given figure, two straight lines are parallel. Using the data,	
and addition in cashing	i. Name two angles that equal to the angle a. Give the reasons. (4 marks)	c b
	ii. If $a = 50^{\circ}$, then find the magnitude of e . (2 marks)	h
	iii. b and h are pair of allied angles. Write the relation between b and h. (2 marks)	e

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6) (a) Using the straight edge and a pair of compasses, construct the following lines.

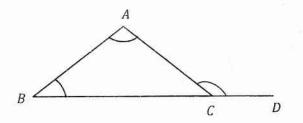
- i. Construct the triangle ABC such that $AB = BC = 5 \ cm$ and $A\widehat{B}C = 120^{\circ}$. (3 marks)
- ii. Construct the locus that equidistance to the points A and B. (2 marks)
- iii. Construct the perpendicular bisector of the line BC.
- iv. Name the intersection point of the perpendicular bisector and the above locus as O.(1marks)

(b) Using your construction,

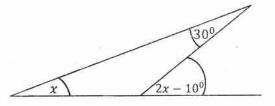
- (1 marks) i. Measure and write the length of AC. ii. Take the center as O and the radius as OA, draw a circle which passes through the points
- (1 marks) A, B and C. (1 marks)

iii. Measure and write the radius of the circle.

- 7) (a) A trader give 15% of discount to an item when it is selling, which has the marked price as Rs.15 000.
 - i. What is the discount when the marked price of an item is Rs.100?
 - ii. Find the discount when the marked price of an item is Rs.15 000.
 - iii. Find the selling price of that item after giving the discount.
 - (b) Using the given data in the figure,
 - i. Write down the relation between the angle $A\hat{B}C$, $B\hat{A}C$, $A\hat{C}D$.



ii. Find the value of x and the value of the exterior angle.



-06-

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

(2 marks)

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