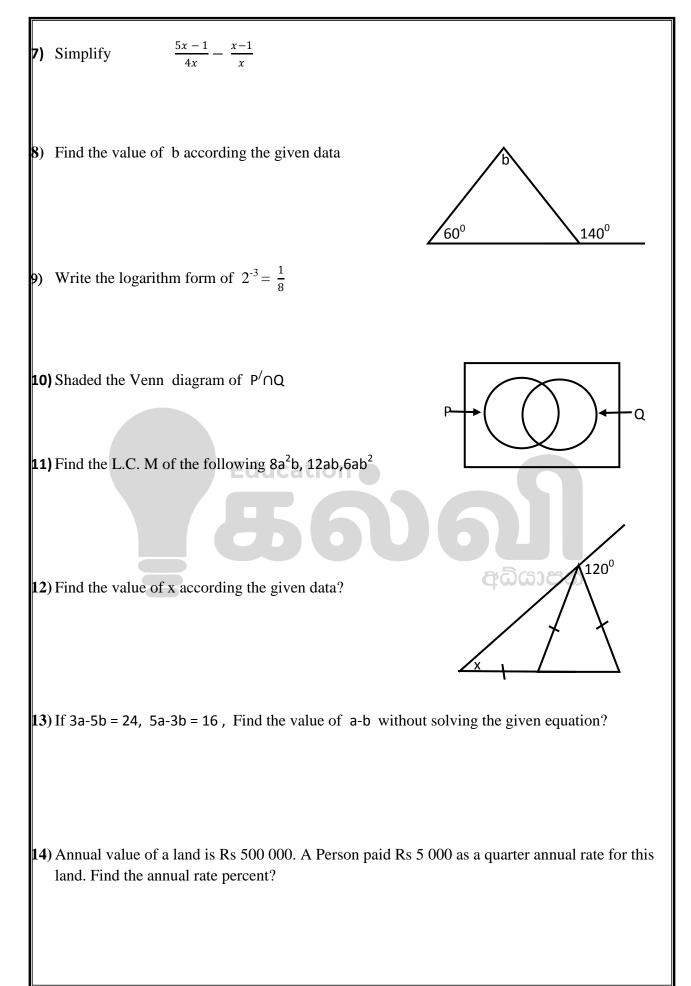
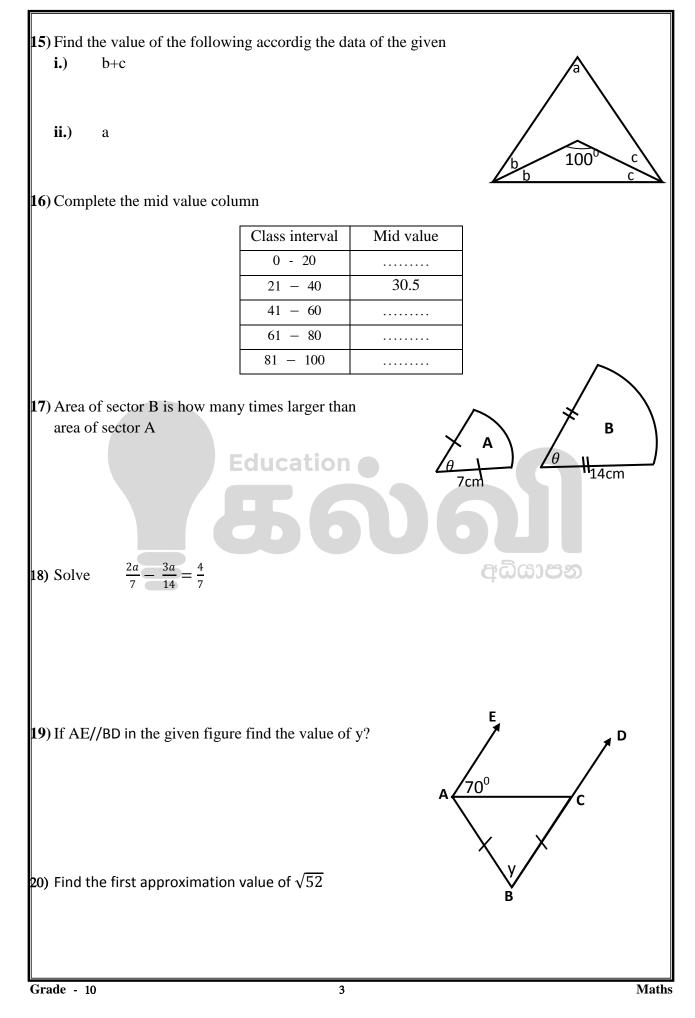
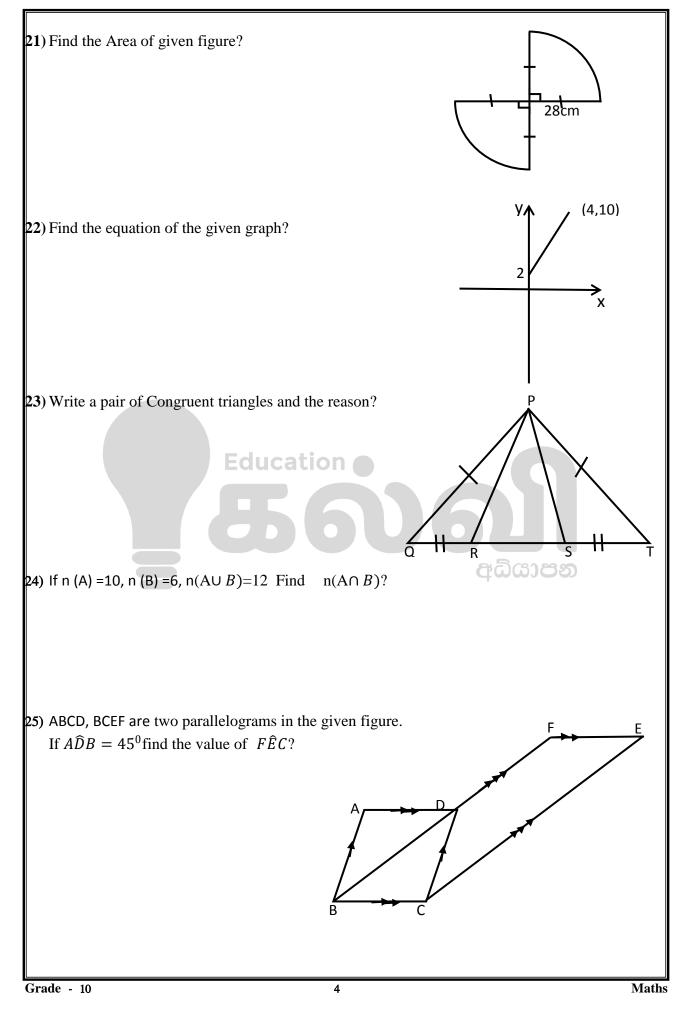
Ind	PROVINCIAL DEPARTMENT OF EDUCATION NORTHERN PROVINCE SECOND TERM EXAM – 2019 MATHEMATICS lex No:	
	PART I–A ANSWER FOR ALL QUESTION IN THIS PAPER	
1)	Simplify $1\frac{3}{5} + \frac{3}{5} \times \frac{1}{3}$	
3)	Find the perimeter of the given diagram Education Find the value of a of the given figure 3a If $2x^2 - 3x - 5 = (2x-a)(x+b)$ Find the value of a,b	-14cm->
	If area of $\triangle$ ABC is 40 cm <sup>2</sup> in the given parallelogram ABCD, In the table, Place the mark ( $\checkmark$ ) in the boxes in front of the True statements, if any, and mark ( $\checkmark$ )in the boxes in front of the True statements, if any, Area of parallelogram ABCD is 80 cm <sup>2</sup> Area of $\triangle$ ACD is 40 cm <sup>2</sup>	C
	If a motor bike pass 135km distance in 3 hours. Find the speed of motor bike? nde - 10 1	Maths







#### PART I-B

01) Amount of money was given partially for construction of new shopping complex in Colombo development program.  $\frac{3}{5}$  Of value of shopping complex money was given initially. Then  $\frac{1}{2}$  of the remaining portion of its value gave. Finally they was given the remaining amount Rs 150,000

i.) Find the fraction of remaining money after the initial amount that was given?.

**ii.)** Find the fraction of money was given second time.

**iii.**)Find the fraction of money was given first two instances.

iv.) Find the amount of money was given second time?

**v.)** Find the Value of shopping complex?

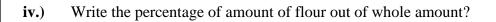
#### þ2)

	Distance (m)	30	60		90		1	20	36	150	)					
	Time (S)	10	20		30		4	0	100	50						
<b>i.</b> ) skectch the	abc	ove ta	able	e for	the	e mo	otior	1 of	'a v	ehi	cle					
ii.) Find the gradient of the graph																
											_			_		
					_					+	_			_		
iii.)Find the uni	form velocity?									+						
•			•		_				_	$\left  \right $	_			_		_
iv.) What is the	distance it move	d 1n 5 m	inutes?					$\left  \right $		$\left  \right $					-	_
	e taken it pass 3	km in m	inutes	$\mid$					_	$\left  \right $	_			_	$\square$	
and seconds	3?			⊣			_	+	+	+				+	+	•
								- 1								]

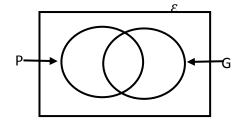
03)	Customs duty Transport cost 1US\$	<ul><li>30% of imported val</li><li>10% value of a thing</li><li>- Rs 120</li></ul>	ue of a thing after paying customs duty
80 i.)		<b>op imported in America</b> y for imported in <b>US\$?</b>	
<b>i.</b> )	Find the transport co	ost in US\$?	
ii.)	Find the value of lapt	op (including the customs duty	and transport) in Rupees?
i <b>v.</b> )	If this laptop marked	to get 20% profit, find the value	e of mark price?
v.)	If 5% discount given	for its sold, find the selling price	æ? 500 අධියාපන
04) Gi i.)	-	perches details by a person sector denote the rice?	Sugar
ii.	) Which thing is pe	rches most amount?	60 <sup>0</sup> 45 <sup>0</sup> Dhal Rice
iii	.) If the least amour	t of perches is 135kg, find the n	nass of other things?

F

7



05.)  $\varepsilon = \{ Advanced level Arts stream students \}$ G= {Students who select Geography} P= { Students who select Political science }



If  $n(\varepsilon) = 50$ , n(G)=30, n(P)=35,  $n(G \cap P)=20$ ,

- i.) Denote the above data in given Venn diagram
- ii.) How many students select geography or political science?

- **Education iii.**)Shade the region  $(G \cap P)'$  in the above Venn diagram.
- iv.) Find the probability if advance level students taken at randomly that student select at least අධ්යාපන one subject?



### PROVINCIAL DEPARTMENT OF EDUCATION NORTHERN PROVINCE SECOND TERM EXAM- 2019 MATHEMATICS



Grade : 10

Time :- 3 Hours

#### Answer the 5 questions only from each Part II A and Part II B

#### Part II- A

 Youth club sold Rs 100, Rs 200, Rs 500 values of tickets for the musical programme. Following amount of tickets were sold for this program

Face value of the ticket	Number of tickets
Rs 100	625
Rs 200	315
Rs 500	210

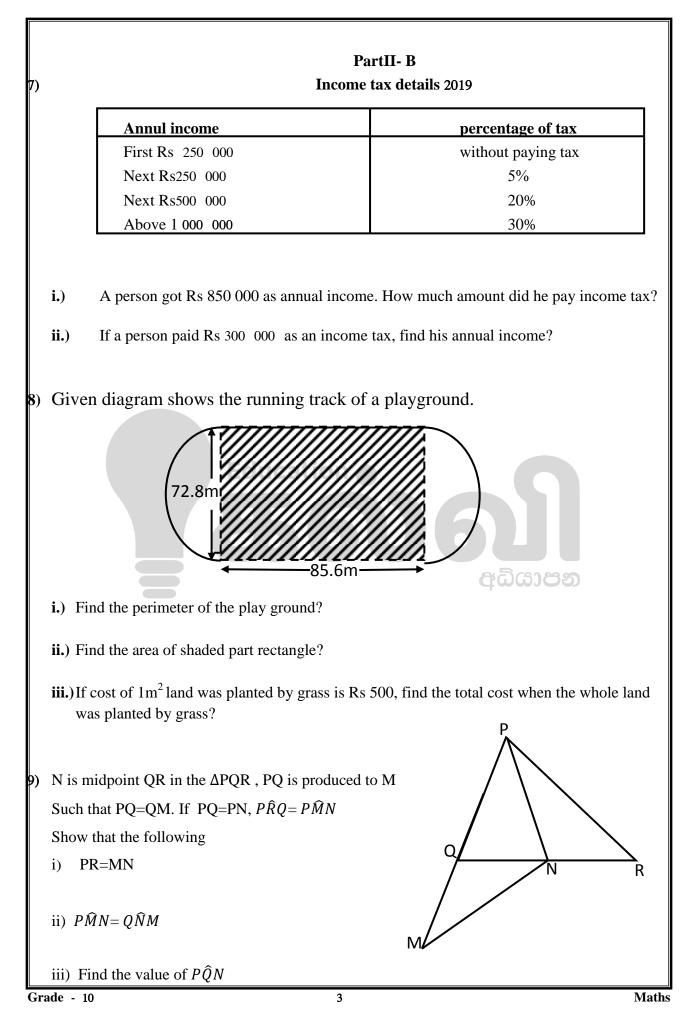
Total expenses of this musical program is Rs 80 500. Find the total income of this program, remaining amount (after the expenses) was deposit in private bank at 12% simple interest. How many years will take to get Rs 240000 from the Bank?

#### 2) Complete the following table to sketch the curve of $Y=2x^2+5$

-		0					11
Х	-3	-2	-1	0	1	2	3
У	23		7	5	7	13	23

- **i.**) Find the value of y when x = -2?
- **ii.**) Sketch the curve for the suitable scale.
- **iii.)** Write the equation of symmetric axis?
- **iv.)** Find the minimum/maximum value of function?
- **v.**) Write the range of x when y < 8.
- vi.) Hence deduce to write the equation of curve when the curve move to downwards by 5 units
- 3) Length of a side of square is x cm, length and breadth of rectangle are 4cm less than the two times of length of square, 3cm more than the length of square respectively. If the difference between the area of rectangle and square is 68cm<sup>2</sup> find the length of square.

4) i.) If 1g2=0.3010 find the value of 1g5 without using log table. ii.) Solve  $\log_3 18 + \log_3 x = \log_3 24 - \log_3 12$ iii.) Find the Value of the following using the log arithmetic table.  $38.26 \times 875.3$ 6.725  $\frac{4}{x+5} + \frac{5}{2x+10} = \frac{13}{16}$ **5) a**.) Solve b.) Value of 3 apples and 4 oranges is Rs 190. Price of 2 apples and 3 oranges is Rs 135 i.) Write the simultaneous equations from the above data. ii.) Find the price of an Apple and an Orange to solve these equations? 6) 15 men do complete a certain work in 8 days. අධ්යාපන **i**.) Find the amount of this task in man days? ii.) If one man day wage is Rs 1000, wage is increase by 20%. How much additional amount did pay for this? iii.) Consider the 5 times amount of previous task, **a.**) How many days will take to do complete above task by 20 men? **b.**) If this task to do complete in 25 days, how many more men need?



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10) Construct cm/mm scale of straight edge

i.) Draw the line AB such that AB=6cm

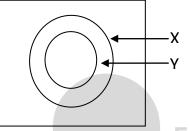
ii.) Construct the  $\triangle ABC$  such that BC = 7.5 cm and  $A\hat{B}C = 60^{\circ}$ 

**iii.**) Construct the angle bisector  $A\hat{B}C$ .

iv.) Mark the point D such that intersects the angle bisector and which is parallel to AB through C.

**v.**) Write the special name of quadrilateral *ABCD*? Give the reason.

 Following incomplete Venn diagram denotes the opinion of sports activity by 40 students in a class.



X = {students who like cricket} Y = {students who like volley ball}

35 students like cricket. 28 students like volleyball and also they like cricket.

i.) Copy the above Venn diagram and show the above details?

ii.) Shade the region the student who like only cricket.

iii.) Write the relationship between X and Y in set notation?

iv.) How many students did not like at least one game?

v.) Write the percentage of students who like volleyball out of whole student?

**12) a**). Write any 2 properties of parallelogram.

**b**). ABCD, ABEF are two parallelogram such that  $B\hat{C}D = A\hat{F}E$  and D is the midpoint of BE in the given figure.

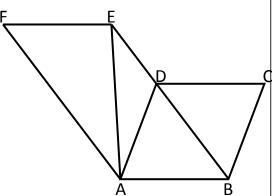
i) Copy the diagram and denotes the data on it.

ii) Show that DC=FE

iii) Show that AD=BD

iv) Show that  $\triangle ADE$  is an isosceles.

Grade - 10

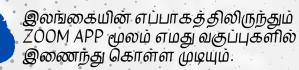


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# ONLINE CLASSES - 2025 WEW ADMISSIONS 20 தவணை வகுப்புகள்

## தரம் 6 முதல் O/L வரை

## அனைத்து பாடங்களும் ஒரே கல்வி நிறுவனத்தின் கீழ் ...







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