

Provincial Department of Education Northern Province

Placement Exam -2021



A CONTRACTOR								
Grade - 10		Mat	hemat	ics		Time : 3	B hours	10 minutes
			Dout I	_		_		
			Part - I	tion 9				
Answer all questions. 01) If custom duty of 8 % of the value of has to be paid when a hand phone is imported. How								
much duty has to be paid this type of phone value Rs 20 000 is imported?								
much duty has to be	jaid this typ	be of plic	ne value	KS 20	000 15 11	nponeu		
02) Simplify : $\frac{4}{3x} - \frac{1}{3x}$								
03) $\sqrt{47}$ is in which two whole numbers?								
04)	Find the value of x in the given figure?							
110	Educe	atio						
05) Find the L. C. M. $3x^2$	^{2}y , $2xy$							
06)	\searrow	Find	the area	of the fi	gure?	අධියා	າຕສ	
						+ 00 00 0		
14 cm								
110m								
07) The scores of 11 cric		-						
2, 3, 8,	, 11,	15,	16,	18,	22,	25,	30,	31
What is the median?								
08)>			Eind 41	volue -	f v in 1		figure	
			rind the	value C		e given :	iigure?	
53 °	>							
09) 8 men take 3 days to	complete a	a given t	ask. Hov	v manv	men are	required	d to com	plete twice
of that task in 3 days.	-	6			•	1		1
ட			1					தரம் - 10



19) $x^2 + 8x + \dots = (x + \dots)^2$

Write the suitable number on the blank space.



A tree has to be planted equal distance from the boundaries of lines *AB*, *BC* and equal distance from the points *A*, *B*.

Mark the suitable point on the diagram using the knowledge of loci.

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 $(20 \times 2 = 40 \text{Marks})$

Part - II

Answer for 6 questions only

- 01) A person spends $\frac{1}{3}$ of the salary for food and $\frac{1}{4}$ of the salary for educations $\frac{3}{5}$ of the remaining portion for the medical expenses. He deposits the remaining amount at the bank. Additional amount of money he spends for food than education is Rs.6000.
 - (i) What fraction of the total salary spent for food and education?
 - (ii) What fraction of the total salary spent for medical expenses?
 - (iii) Give the additional amount of money spent for food than education as the fraction of the total salary.
 - (iv) Find his monthly salary.
 - (v) Find the amount he deposited at the bank.
- 02) (a) Solve

$$\frac{3x-2}{5} = \frac{2x+1}{3}$$

(b) Abinas saves money by putting the coins of Rs.10 and Rs.5 in a till.When count the collected money.

He observed that the numbers of Rs.5 coins are equal to three times the number of Rs. 10 coins. Total money he collected in that till is Rs. 500.

- (i) Form simultaneous equations by taking the number of five rupee coins as x and the number of ten rupee coins as y.
- (ii) Find the numbers of five rupee coin and number of ten rupee coin by solving the above equations.

கணிதம்





- $A \qquad 14 m \qquad B$
- (i) Find the breadth of the rectangle.
- (ii) Calculate the area of the water pool.
- (iii) Find the area of the portion that planted grass.
- (iv) Bulbs have to join along the arc of the water pool with the distance of 2 m. How many bulbs are needed?
- (v) A path has to be constructed around out of the rectangular land with the distance of 1.5 *m*. Find the area of the path.
- 06) The pie chart is given below illustrates the information about the persons who affected by covid 19 in five provinces of Sri Lanka during a certain day.



- (i) If the number of persons who affected in Eastern Province is two times of the number of persons who affected in Northern Province, find the angle at the centre of the circle which denotes the persons who affected in Northern Province.
- (ii) Find the percentage of persons who affected by covid 19 in North Western Province.

கணிதம்

- (iii) Find the ratio between the persons who affected by covid 19 in Uva Province and Western Province. Express it in simplest form.
- (iv) If 30 more patients identified in Eastern Province than Northern Province, calculate the total number of patients infected during that day, in all 5 provinces.
- (v) Next day, 60 newly infected persons were identified in western province only. If they decided to include the above information in the new pie chart. Find the angle at the center of the sector which donates the Western Province.
- 07) R U Educ^Tation In the parallelogram PQRS, side SP is produced up to T, So that SP = PT. Also SR and TQ when produced meet at 'U'. Prove that. PTQR is a parallelogram. (i) අධ්යාපන (ii) *PQUR* is a parallelogram. (iii) SR = RU

ONLINE CLASSES - 2025 WEW ADMISSIONS ம் தவனை வகுப்புகள்

தரம் 6 முதல் O/L வரை

அனைத்து பாடங்களும் ஒரே கல்வி நிறுவனத்தின் கீழ் ...



இலங்கையின் எப்பாகத்திலிருந்தும் ZOOM APP மூலம் எமது வகுப்புகளில் இணைந்து கொள்ள முடியும்.





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