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	க்கைம் குறும் கும்மகை குண்டு கண்கள் காலம் காலாக கண்டு திணைக்கள் Mestern Provincial Education Dep மில் மாகாலாக கண்டு திணைக்கள் இதன் மாகாலாக கண்டு திணைக்கள் Western Provincial Education Dep மில் மாகாலாக கண்டு திணைக்கள் Western Provincial Education Dep மக் மாகாலாக கண்டு திணைக்கள் Western Provincial Education Department - Colombo Educational Zone Western Provincial Education Department - Colombo Educational Zone Western Provincial Education Department - Colombo Educational Zone Western Provincial Education Department - Colombo Educational Zone மன் மாகாலக் கண்டு திணைக்கள் மில் மாகாலக்கள் மில் மாகாலக்கள் மில் மாக கண்டு திணைக்கள் மில் மாக மாக கண்கள் மல் மாக கண்கள் மல் மாக கண்கள் மல் மாக கண்டு கண்கள் மல் மன் மல் மன் மன் மன் மன் மன் மன் மன் மன் மன் மன					
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	தரம் 9		കഞ്ഞിച്ച	தம்		இரண்டு மணித்தியாலங்கள் Two House
ļ	Grade 9		Mathen	natics		I wo Hours
	Name/Index No):	•••••			
				PART I		
•	Answer all q	juestions on	this paper itself.	•		
•	Each question	on gets 2 ma	urks.			
	Round off 3.7	52 to one de	ecimal place.			6.
			- 10		LE duce	ttor
	Write 6.7×10^{-10}	0 ⁻² in genera	l form.			
		e	55	50		
	Find the gener	al term of th	e number pattern	n 3, 8, 13, 18,	q	ඩියාපන
	1	2 1				
	Simplify $2\frac{1}{3}$ -	$\div \left(\frac{2}{3} - \frac{1}{5}\right)$				
	Find the value	of $6x - 3y$	if $x = 2$, $y = \frac{3}{5}$			
	Find the value	of $6x - 3y$	if $x = 2$, $y = \frac{3}{5}$			
	Find the value	of 6 <i>x</i> – 3y	if $x = 2$, $y = \frac{3}{5}$			
	Find the value	of 6 <i>x</i> – 3y	if $x = 2$, $y = \frac{3}{5}$			
	Find the value	of 6x - 3y	if $x = 2$, $y = \frac{3}{5}$			
	Find the value Simplify $3x \times x$	of $6x - 3y$ x^3	if $x = 2$, $y = \frac{3}{5}$			
	Find the value Simplify $3x \times x$	of $6x - 3y$ x^3	if $x = 2$, $y = \frac{3}{5}$			
	Find the value Simplify $3x \times x$	of $6x - 3y$ x^{3}	if $x = 2$, $y = \frac{3}{5}$			

7.	Factorize $x^2 - 4x - 5$
8.	Find the value of x in the given diagram. $3x^0$ $2x^0$ x^0
9.	Simplify the following binomial expression
	(x - 3) (x + 2)
10.	The cost of production of an article is Rs. 500 and sold it at Rs. 400, find the percentage loss obtained by selling each article.
	16535061
11.	Sachi calculated the percentage of $\frac{4}{5}$ using a calculator. The keys that he used is given below in order. But the symbols of some keys were erassed, write the missing symbols in relevant box.
	ON 4 5
12.	Represent in index form of $\log_3 81 = 4$
13.	Using the information given in the figure. Find the value of <i>x</i> .
	x^{0} 75^{0}

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(14.	Solve $\frac{x}{3} - 4 = 1$
15.	The figure shows a semi circle, find the perimeter of it.
	\sim 1 \sim 1 \sim 14cm
16.	Make <i>f</i> the subject of the formula
	v = u + ft
17.	Find the length of AB the figure according to the given data.
18.	Find the value of x and y in the given diagram.
19.	Find the gradient and the intercept of the graph of the equation $y = 2x - 3$
20.	The capacity of a vessel is 3m ³ Find in liters.

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PART II
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- Write the answers for the question number 1 and four others on a separate paper and attach it to the Part I.
- Question No 1 carries 16 marks and, all the others get 11 marks each.
- 1. a) Recollect the activity that you have done with the assistance of your mathematics teacher, regarding the angles of triangles and quadrilaterals.



- i) What are the values of x + y + z and a + b + c + d?
- ii) Write the ratio

 $(x^{0} + y^{0} + z^{0}) : (a^{0} + b^{0} + c^{0} + d^{0})$ in its simple form

iii) According to the figures find the value of x.



- b) i) A train covers 60km in one hour. Find the time the train takes to travel 420 km.
 - ii) A train takes Rs. 100 to travel 120km. Find the cost the train takes to travel 420 km.
- c) i) Solve 5(x-3) = -2 + 3(x+1)

ii) Solve the pairs of simultaneous equations given below and find the value of x and y.

4x - 3y = -2x - 3y = -5

- 2. a) Find the factors of the following algebraic expressions.
 - i) $4x^2 100y^2$ ii) $x^2 y^2 x + y$
 - iii) $4 3x x^2$ iv) kx my ky + mx
 - b) Express in
 - i) cubic centimeters ii) litres

the capacity of the following container.



- 3. a) Simplify $(4\frac{1}{5} \div \frac{14}{15}) \times 4\frac{1}{3}$
 - b) Mr. Silva made a cash donation to a community centre $\frac{2}{7}$ of the total amount he denoted was used to buy musical instruments and $\frac{1}{2}$ to buy sports equipment.
 - i) Find what fraction of the total amount was used to buy the musical instruments and sports equipment.
 - ii) The amount reaming was used to buy books. Find what fraction of the total amount was used to buy books.

4. a) Simplify

- i) $\frac{x^3 \times 2y^4}{x^{-2} \times y^{-5}}$ ii) $\frac{(x^3)^{2} \times x^5}{x^4}$
- iii) $\log_x 125 = y$ write one suitable pair of numbers for x and y.
- b) A person who borrowed Rs. 40 000 at 10% annual simple interest pays back the loan with the interest after 3 years
 - i) Find the interest after 3 years.
 - ii) What is the amount he has to pay to get released from the loan?

5. Use only a straight edge with a cm/mm scale and a pair of compasses for the following constructions show the construction lines clearly.

- i) construct the straight line segment AB which is 7.5cm long. Construct an angle $BAC = 60^{\circ}$
- ii) Construct the straight line segment AC and mark the point C on the straight line segment which is 6cm away from A.
- iii) Complete the triangle ABC.
- iv) Construct the locus of the point which moves equidistant from AB and AC Mark the point D where the locus meet BC.
- 6. a) Find the perimeter of the following shapes shown in the diagrams.
 - i)



b) Find the value of x and y according to the data given in the figures.



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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