			- Con cat ion Zone මතුගම අධිභාපන කලාපය					
Second Term Evaluation - 2024								
Grade 09	Mathematics	Part I	2 hours					
Name :								
Answer all questionEach questions car	s on this paper itself. ries 02 marks.							
. The general term of a nu	mber pattern is $2n + 5$. Find	the 6 th term of it.						
2. Convert the binary numb	er 1001_{two} into decimal numb	per.						
3. Simplify. $\frac{6}{7} \times \frac{1}{3}$								
A discount of 10% if off price of the book.	ered when a story book of ma	rked price Rs.650/= is p	purchased. Find the sellin					
5. Factorize. $x^2 + 5x + 5x$	6							
5. AB is a straight line. Fin	d the value of x		2x x B					

08. When 650 ml of water poured in to this vessel, the vessel is half full. What is the capacity
of the vessel.
650 ml
00 Find the gradient of the straight line $2y - 4x \pm 6$
0.5. Find the gradient of the straight line $2y = 4x + 0$
10. The straight lines AB and CD are parallel lines. Find the value of x
D
A X
c /
11. Simplify. $x^3 \div (x \times x^2)$
12. Choose the two numbers from the following numbers that give the same value when round off.
305 480 410 570
575, 400, 410, 570
r+5
13. Solve. $\frac{x+3}{2} = 6$
14. In the ABC triangle, the side BC produced to D. Find the value of x
/62°
$P \frac{48^{\circ}}{C} D$
<u>ل</u>
15. Make 't' the subject of the formula $v = u + at$
16 Find the aircumformers of the aircle of radius 14 cm $(\pi - 2^2)$
To. Find the circumference of the circle of radius 14 cm. $\left(n - \frac{1}{7}\right)$
2



02. a) Solve the following equations.

i. x + 5 = 7 ii. $\frac{x}{3} - 1 = 3$ iii. 2(x + 5) = 18

b) Solve the following pair of simultaneous equation.

$$\begin{array}{l} x + y = 8 \\ x + 3y = 14 \end{array}$$

03. An incomplete table of values prepared to draw the graph of the function y = 2x - 1 is given below.

x	-2	-1	0	1	2	3	4
у	-5	-3	-1	1		5	7

i. When x = 2, find the value of y

ii. Draw the graph of the above function on a suitable coordinate plane.

iii. Find the gradient of the graph.

iv. Find the intercept of the graph.

v. Write the equation of the straight line which is parallel to above straight line and which passes through the point (0,3)

04. a) If the price of 05 exercise books is Rs.600/=. Find the price of 08 such exercise books.

b) It takes 30 minutes to fill a tank of capacity 300 *l* using a pipe in which the water flows at a constant rate. Find the time taken to fill a tank of capacity 500 *l* using the same pipe.

c) Suranga, who works in an American company, has a monthly salary of 350 US dollars. The exchange rate is Rs. 285 for US dollars. Find his monthly salary in Sri Lankan rupees.

05. a) Find the value.

i.

$$\left(\frac{2}{3}\right)^2$$
 ii. $(2^2)^3 +$

- b) Write the answer with positive indices. $\frac{x^{-3} \times x^2}{xv}$
- c) i. Express 78943 in scientific notation.
 - ii. Round off 9998 to the nearest 10

06. The diameter of the wheel of the doll cart is 28 cm. Use $\frac{22}{7}$ for the value of π

 3^{0}

- i. Find the radius of the wheel.
- ii. Find the circumference of the wheel.
- iii. What is the distance the doll cart moves during 3 rotations.

iv. How many time does this wheel rotate while moving between two points A and B 22m apart.

07. Based on the information given in the figure find the value of a, b and d.

(State the theorems applicable in obtaining the answers)



a

40°

b

50⁰



කෙටි සටහන් |පසුගිය පුශ්න පතු |වැඩ පොත් සඟරා | O/L පුශ්න පතු | A/L පුශ්න පතු |අනුමාන පුශ්න පතු |අතිරේක කියවීම් පොත් | School Book ගුරු අතපොත්



පෙර පාසලේ සිට උසස් පෙළ දක්වා සියළුම පුශ්න පතු, කෙටි සටහන්, වැඩ පොත්, අතිරේක කියවීම් පොත්, සඟරා **සිංහල සහ ඉංගුසි වාධාණයන් ගෙදරටව ගෙන්වා ගැනීවට**

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