

DEPARTMENT OF EDUCATION - CENTRAL PROVINCE

Evaluation on diagnosing student performance					
Grade 10	Mathematics	Time: 2 hours			
Answer all questions. Part I					
01. If $\sqrt{2} = 1.41$ fir	nd the value of $\sqrt{50}$				
02. Remove brackets	s and simplify $x(x-2) + 3x$				
03. b/d 60	According to the information given	n find the value of a and b			
04. Write 2022 in se	cientific notation.				
05. Given figure is a Find the length o	sector with the radius 7 <i>cm</i> . of the arc.	mathematica.lk			
06. Factorize x^2 +	17x + 16				
07. Volume of liquid area of the base of	d in a cuboid shaped container is $1 l$ with to for the container.	the height of 5 cm. Find the			
$\begin{array}{c} \textbf{08.} \qquad \mathbf{P} \\ \textbf{T} \overbrace{110^0 100^0}^{\text{T}} \textbf{Q} \\ \textbf{S} \underbrace{x} \qquad \boldsymbol{R} \end{array}$	According to the information given in the value of x	pentagon ABCDEF find the			
09. The general term	the of a number pattern is $(2n - 3)$. Find the final final set of the fi	rst three terms of it.			
10. The cost of a pai the selling price.	ir of shoes is Rs. 1800. If the vendor wants	to earn 15% profit, What is			
11. 7 cm	Using the measurements given bel 9 cm the trapezium. matica.lk	low find the area of			

- 12. Make *a* the subject of the formula v = u + at
- 13. Find gradient and intercept of the straight line graph which goes through points (0,4) and (1,2)
- 14. What is the probability of randomly getting a card numbered only prime numbers from 1 to 20.



01. An incomplete table to draw the graph of y = 3x + 1 is given below.

Х	-3	-2	-1	0 r	nathe	emati 2	ca ₃ lk
У	-8		-2		4	7	10

- i) Find the values for the blanks given in the table.
- ii) Draw the graph using a suitable scale.
- iii) Find the gradient and intercept.
- 02. Following table shows information of telephone calls taken by an institute during one month.

Number of calls	04	07	10	13	15	19	25
Number of days	02	03	05	07	06	04	03

- i) Find the mode and the median of the above data.
- ii) Calculate the mean number of telephone calls to the nearest whole number.
- iii) Find the number of days in which more than 10 calls have taken?

03. In the number pattern 8, 11, 14, ...

- i) Write next two terms.
- ii) Find the general term of the above number pattern.
- iii) Find the 10th term using the general term.
- iv) Which term is 80. mathematica.lk

04. Shrimal gave $\frac{2}{5}$ of his land to his wife, $\frac{3}{10}$ of his land to his son and remaining portion to his daughter.

- i) What fraction of total gave to wife and son?
- ii) Find the fraction daughter received.
- iii) If wife received 20 hectares find the total land.





06.



- i) Find the area of square PQRS.
- ii) Find the perimeter of PQRS.
- iii) Find the diameter and radius of the biggest circle that can cut from the above square.
- iv) Find the area of the biggest circle.

v) Find the area of the remaining part after removing the biggest circle.



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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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