## covid-19-weekly school

## Sabaragamuwa

Mathematics-1<sup>st</sup> term- Grade 09-April 2<sup>nd</sup> week

01. Write the first three terms of  $T_n = 6n-1$ .

02. Find the general term of 15, 19, 23, 27.....

03. Introduce alternate angles, corresponding angles, allied angles, vertically opposite angles in four clear diagrams separately.

04. For the following statements, use the ( $\sqrt{}$ ) mark if the statement is correct and the ( $\times$ ) mark if it is incorrect.

a) The three numbers 0, 1, 2 are used to write the binary numbers. ()

b) The power with zero index of any number is 1. ( )

05. If a phone worth Rs15000 is sold at a loss of 20%, calculate the selling price of the phone.

06. A company charges a commission of 5% on the sale of a land which is worth Rs 1 500 000. How much needs to be paid as the commission ?

07. +2  $\frac{1}{3}$   $\frac{1}{2}$ 08. 3 of  $\frac{5}{6}$   $\frac{3}{11}$ 09. If  $\frac{1}{5}$  of a certain amount is Rs 300, what is the total amount ? 10. Simplify.  $3\frac{3}{4} \div (2\frac{1}{2} + 3\frac{1}{4})$ . 11. Find the value of 11 two + 111 two and show it on an abacus. 12. Expand and simplify the following product of binomial expression. (x-8)(3-x) 13. Factorize. ax + ay + 3x + 3y

14. The length of a rectangle is 3 unit more than twice its width. Construct an expression for the area of rectangle. (Take the width of rectangle as x)

15. If x=3, y = -2, find the value of x+y.

16. Find the magnitude of the angles denoted by X,Y,Z.



17. What is the relationship between a cubic centimeter and a milliliter ?

18. 8000L of a water is in a cuboid shaped tank consisting of a base of length 4m and width 1m. find the height to which the water is filled in the tank.?

19. A vendor earns a profit of 15% by selling an item. If it had been sold at a 20% profit, another Rs 200 could have been earned. Find the purchase price and selling price of the item.

20. If a vendor incurs a loss of 6% by selling an item for Rs.4700, calculate its purchase price.

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