

## ්ල රච්ඡන්ඩ් විදහලය ගාල්ල රචුණෙඩ් විදහලයනුල්ල රච්ඡන්ඩ් විදහලය හාල්ල රච්ඡන්ඩ් විදහලය හාල්ල රච්ඡන්ඩ් විදහලයනාල්ල ඊල රච්ඡන්ඩ් විදහලය ගාල්ට <mark>විමානු ච</mark>ල්යැතිල් උනුමුල්වලට සැබඳ 1944ව 1946 හාල්ල රච්ඡන්ඩ් විදහලයනාල්ල රච්ඡන්ඩ් විදහලයනාල්ල ඊල රච්ඡන්ඩ් විදහලය ගාල්ල රච්ඡන්ඩ් විදහලයනාල්ල රච්ඡන්ස් විදහලය ගාල්ල රච්ඡන්ඩ් විදහලය ගාල්ල රච්ඡන්ඩ් විදහලයනාල්ල

ණ පිවෙන්ව වදහලය ගාල්ල ජීවිනේව විදුහිදයගැල්ල ජීවීමෙන් විදිහලය තාල්ල ජීවීමෙන්ව විදුහලයගාල්ල ජවීමෙන්ව විදුහලයගාල්ල මේ ජවින්ව විදුහලය ගාල්ල ජවින්ව විදුහල කරනුවේ විදුහලය තාල්ල ජවින්ව විදුහලය තාල්ල ජීවීමෙන්ව විදුහලයගාල්ල ජවින්ව විදුහලයගාල්ල ඒ ජීව ජවින්ව විදුහලය ගාල්ල ජවින්ව**ිම පිට**්ට ප්රචාර ජීවීම ජීවීම ජීවීම පිදුහුලය ගල්ල ජවින්ව විදුහලයගාල්ල ජවින්ව විදුහලයගාල්ල උත්ල ජවින්ව විදුහලය ගාල්ල ජවින්ව විදුහලයගාල්ල ජවින්ව විදුහලය ගාල්ල ජවින්ව විදුහලය ගල්ල ජවින්ව විදුහලයගාල්ල ජවින්ව විදුහලයගාල්ල ජාල්ල ජවින්ව විදුහලය ගාල්ල ජවින්ව විදුහලයගාල්ල ජවින්ව විදුහලය ගාල්ල ජවින්ව විදුහලය ගාල්ල ජවින්ව විදුහලයගාල්ල ජවින්ව විදුහලයගාල්ල

**Mathematics** 

Time - 2 hours

Name / Index No .....

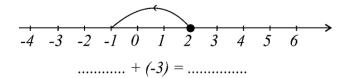
**Grade 8** 

- Answer all the Questions
  - 01. Simplify

$$2.05 + 1.3 + 0.082$$

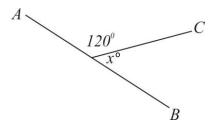
02. Write down the supplement of 135°

03. Fill in the blanks by using the number line given below



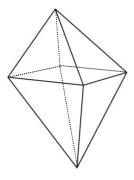
04. write the general term of the number pattern

05.



If AB is a straight line, find the value of  $x^{\circ}$ 

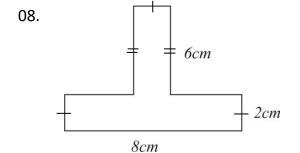
06.



What is the name used to identify the solid object shown in the figure

07. Simplify

$$2\mathcal{X}(3\mathcal{X}+3)+5\mathcal{X}$$



Find the perimeter of the given figure

09.

Items	Price of
	1 kg
Rice	а
sugar	b
Dhal	С

Using the table given below, construct an algebraic expression for the price of 5 kg of rice, 2 kg of dhal and 1 kg of sugar.

10. Find the HCF (Highest common Factor) of 12 and 18

11. Simplify

$$(+5)-(-2)$$

12. Express the following expression as a product of powers

$$2 \times 2 \times 2 \times p \times p \times q \times q \times q$$

13. Factorize (Express the following expression as product of two factors)

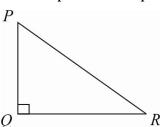
$$4 + 2x$$

14. If Rs. 5600 was divided between Kamal and Wimal in the ratio 3 : 4 , Find the amount received by Kamal.

15. Express the shaded region as a fraction of whole figure.



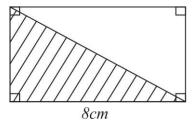
16. Name a pair of complementary angles of the given triangle.



17. The mass of a box of present is 2kg and 350g. Express the mass of 3 such of boxes, in kilogrammes.

18. In a solid there are 9 faces and a vertices. Find the number of edges of it.

19.



Find the area of the shaded part of the figure.

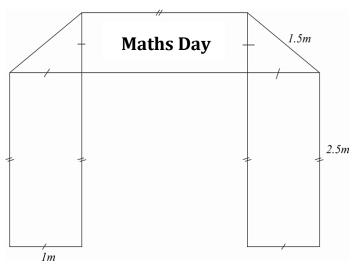
5cm

20. Write down an example of square number which is obtained by getting sum of the another square numbers.

First Term Test - 2020 Page 04

Part II

• Answer five questions only.



The above picture show a pandal (Thorana) which was created by grade 8 students in a certain school for their "Maths Day" celebration.

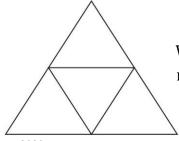
- i. Find the perimeters of the two triangular Parts. (02 Marks)
- ii. Find the name of the shape of a plane figure, Which is obtaining by joining two plane figures in the given figure (02 Marks)
- iii. Find the minimum length of a ribbon to fixe around the rectangular part which is written "Maths Day" (02 Marks)
- iv. Find the area of the red colour clothes needed to cover pandal (Thorana) except rectangular part (Mentional in part iii) (02 Marks)
- v. If the cost of  $1\ m^2$  of red clothes is Rs. 220, Find the total cost needed to buy red clothes. (02 Marks)

## 02. Information about a solid object is as follows

Vertices	Face	Edges
20	12	30

- i. Write down the name of the solid (01 Marks)
- ii. Show that this solid is saticefied with Euler's Relationship. (02 Marks)
- iii. What is the shape of the face of the above solid (02 Marks)
- iv. Write down two special features of a platonic solid (02 Marks)
- v. Name 5 Platonic solids (03 Marks)

vi.



What is the solid that can be constructed by using the net given below. (02 Marks)

First Term Test - 2020 Page 05

03.

i. Express 12 as a product of prime factors.

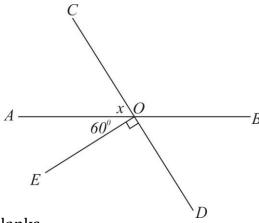
(02 Marks)

- ii. Factorize (separate into facors)
  - a) ab + 2a
- b) x + xy
- c) -12x + 3y

- (02 Marks)
- (02 Marks)
- (02 Marks)
- iii. Express 72 as a product of powers, With the prime factors as the bases.
- iv. If p = 2 and q = 3, find the value of the expression given below.  $3p^3q^2$

(02 Marks)

04.



- i. Fill in the blanks.

  - b) AÔC and AÔE are a pair of ...... angles (02 Marks)
- ii. Find the value of  $X^0$  (02 Marks)
- iii. Name a pair of supplementary angles of the given figure (02Marks)
- iv. Find the value of COB. (03 Marks)
- v. Sadun said" that EOC and AOC are the pair of a adjacent angles" Do you agree with that statement? Give reasons for your answer. (03 Marks)

05.

- i. Mass of the box of chocolate is a gramme and the mass of the box is e gramme construct an algebraic expression for the mass of the chocotale in 15 boxes.
- ii. Simplify
  - a) 2 (3b-1)
- b) 2p (4p 2q)

(02 Marks)

(02 Marks)

- iii. Simplify
  - 3(2b-c)-2(2b+2c)

(02 Marks)

iv. If x = 3 and Y = (-1), Find the value of the expression 2x - 3y + 3

06.

i. Write down the next two terms of the number pattern given below.

- ii. Write the name of the number pattern given above.
- iii. Draw then pattern related to the 5<sup>th</sup> term of the number pattern by using dots. (02 Marks)
- iv. Write down the first five terms of the number pattern of general term  $n^2$  (02 Marks)
- v. Which term is 121 in the number pattern mentionat in [iv]
- vi. Write down the number which is common for above both number patterns (02 Marks)

First Term Test - 2020 Page 07