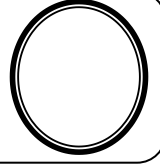




யா/ஹாட்லிக் கல்லூரி,பருத்தித்துறை.
J/ Hartley College, Point Pedro.



முதலாம் தவணைப் பரீட்சை –2020 – தரம் 09
First Term Examination – 2020 – Grade 09

Mathematics

32

E

I, II

இரண்டு மணித்தியாலம்
Two Hours

கூட்டுண்
Index No

--	--	--	--	--

Mathematics

Part - I

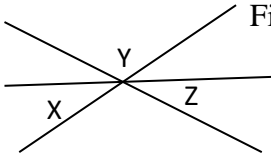
1. Simplify

$$7.8 - 3.42$$

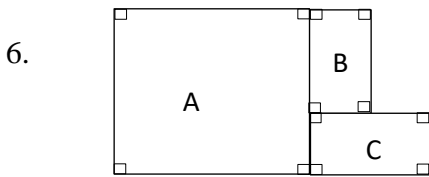
2. Convert 2.05km to meter?

3. If $\frac{5}{8}$ of the population of a village is women, Find the ratio between the population of women and men in that village?

4. Find the value of $x+y+z$?



5. Subtract $ax-b$ from $ax+b$?



6. A,B and C are squares. If the area of B and C are 25cm^2 , 64cm^2 respectively. Find the area of square A?

7. If $\frac{15}{\square} = 30\%$, Fill in the cage?

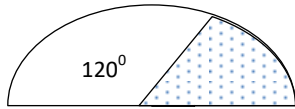
8. Simplify $110111_{\text{two}} + 111_{\text{two}} - 100_{\text{two}}$

9. Find the value of $\sqrt{3^2 + 4^2}$

10. What fraction should we multiply by $\frac{1}{3}$ to get $5\frac{1}{3}$?

11. Give $\frac{3}{4} : \frac{1}{5}$ in simplest form?

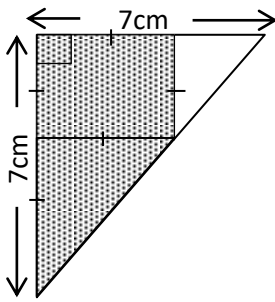
12. Give the fraction of shaded portion of whole figure?



13. Remove the bracket and simplify.

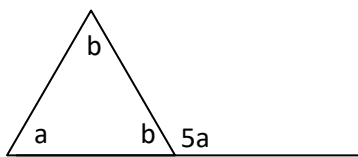
$$(2X + 1)(X - 3)$$

14. Find the area of shaded part?



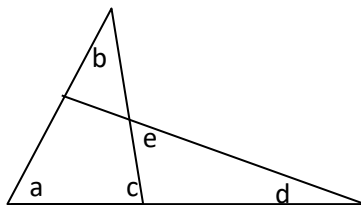
15. Find the value of $\sqrt{3^2 + 23 \times 17}$ by use the factor knowledge?

16. According to the given figure, Find the values of a, b?

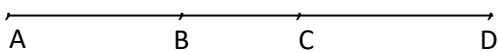


17.

Find the value of $a + b + d + e$?



18. If $AB = CD$, prove that $AC = BD$?



19. If $a = 3$, $b = (-4)$, find the value of $\sqrt{3a - 4b}$?

20. A and B are two fixed points at a distance of 10cm. construct the locus of the points equal distance from A and B?

Part – II

Answer all questions.

(01). The general term of a number pattern is $5n + 1$.

1. Write first four terms of this pattern?
2. Find the common difference?
3. Find the 9th term?
4. Which term is 40 in above number pattern?
5. Write down the $(n+1)$ th term?
6. Show that 250 is not a term in above number pattern?

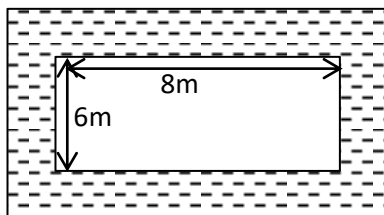
(02). A. Simplify.

- i. $4\frac{1}{4} + 5\frac{1}{2}$
- ii. $8\frac{1}{3} - 4\frac{2}{3}$
- iii. $15\frac{1}{3} \times 1\frac{1}{23}$
- iv. $7\frac{1}{2} \div 1\frac{1}{2}$

B. If $a = 3$, $B = (-2)$, $c = 4$, find the value of,

- i. $a - b$
- ii. $b + c - a$
- iii. $2a + b - c$

(03). A.

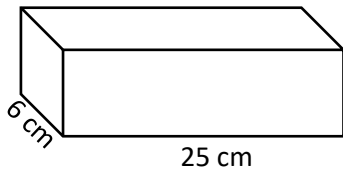


The given figure represent of the flower bed 8m long and 6m wide. The path is set to get around.

- i. Find the area of flowerbed including the path?
- ii. Find the area of flower bed?
- iii. Find the area of the path?
- iv. If it cost Rs 25 per square meter to plant grasses on the path, find the total cost to plant grasses on the path?

B.

The length and width of a cuboid shaped vessels is 25cm and 6cm respectively.



i. Find the area of base?

If $\frac{1}{3} l$ of water is poured into it

ii. Find height the water

(04). i. The ratio of money to Ramanan and Sujeevan is 4 : 3, If Ramanan give Rs 50 to Sujeevan, now the ratio is 2 : 3, How much money did Ramanan have?

ii. Present age of father is four times that of the son. Before 5 years if the sum of ages of father and son is 40. Assume that present age of son X years , and find the present age of father and son by make the suitable simple equation?

05. Find the magnitude of angles which are denoted by English alphabets in given figures.

