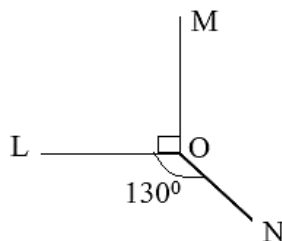


Name.....

10) When $x = 3$ find the value $2(3x - 1)$.

11) $\frac{-36}{\square \times (-2)} = \frac{-36}{+12} = \square$ Fill in the blanks.

12) Find the value of \widehat{MON} .



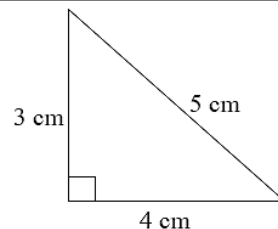
13) i. $(-3) + (+5)$ simplify.

ii. $(-1)^{2025}$ Find the value.

14) Express the ratio $2 : 5$ as a percentage.

15) Simplify $5(x + 2) - 3(x + 5)$

16) Find the areas of the triangles.



17) simplify $5 - 2 \times 1.25$

18) Solve the equation $2y - 1 = 3$

19) x and 38° are a pair of complementary angles.

i. Find the x value.

ii. Find the supplement of x .

20) solve $\sqrt{5^2 a^2 b^2}$

Part 11

- ❖ Answer the 1st question and any other 4 questions.
- ❖ First question carries 16 marks and each other questions carries 11 marks.

1)

a) Recall the facts about Euler's relationship and platonic solids that studied in the lesson of solids.

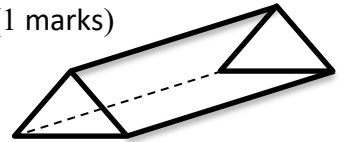
(i) The Regular octahedron and the cube are two platonic solids. Name two another platonic solids. (2 marks)

(ii) How many platonic solids are there? (1 marks)

(iii) Name the platonic solid which has four faces. (1 marks)

(iv) Write down number of faces, edges and vertices of the given figure of the solid. Show that the above values satisfy Euler's relationship.

(3 marks)



b) A person intends to pack and sells the mixture made by mixing peanut and dhal in the ratio 4 : 3 and dhal and murukku 1 : 1 .

(i) Write in the simplest form, the ratio of peanut to dhal to murukku in the mixture. (2 marks)

(ii) How many kg of murukku should be added to prepare a mixture of 20 kg ? (2 marks)

(iii) Show that the percentage of peanut in the mixture is less than 50%. (2 marks)

(iv) The price of a packet of the above type which was Rs 120 ,has increased by 10%.

a) By how many rupees the price of a packet increased? (2 marks)

b) Find the new price of a packet. (1 marks)

2) (a)

(i) Build up an expression for the perimeter of the given figure. (2 marks)

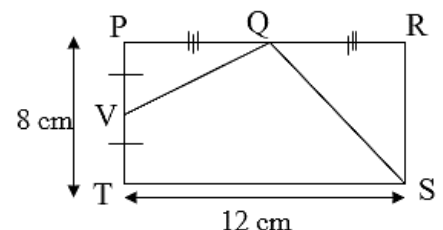
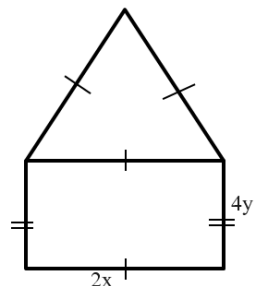
(ii) When $x = 5$, $y = 2$ find the perimeter of the figure. (2 marks)

(b) In the PRST rectangle , V is the mid point of PT and Q is the mid point of PR. ST= 12 cm.

(i) Find the area of PQV triangle. (2 marks)

(ii) Find the area of QRS triangle. (2 marks)

(iii) Find the area of TSQV quadrilateral. (3 marks)



3) $A = \{ 2, 3, 5, 7 \}$

$B = \{\text{letters in the word "COMMUNICATION"}\}$

$H = \{\text{prime numbers between 7 and 10}\}$

(i) Write the set A in terms of common characteristic of its elements. (2 marks)

(ii) Write the set B , by listing the elements with in curly brackets and write $n(B)$. (2 marks)

(iii) Find $n(H)$? (2 marks)

(iv) fill in the blanks with \in or \notin as appropriate. $9 \dots\dots\dots H$ (2 marks)

(v) Write a set P in terms of a common characteristic of its elements. such that the elements can be identified clearly Where $n(H) = n(P)$. (3 marks)

4) (a) Solve the following equations.

(i) $\frac{x}{3} - 2 = 7$

(2 marks)

(ii) $2(a - 1) = 8$

(2 marks)

(b) The price of a book is Rs 70 more than twice the price of a pen. It cost 410 rupees to buy 3 books and 2 pens.

(i) By taking the price of a pen is x and write an algebraic expression for the price of a book in x . (2 marks)

(ii) Construct a simple equation for the above information and find the value of x ((3 marks)

(iii) Find the price of a book. (2 marks)

5) (a) In the given figure AB and CD straight lines intersect each other at O.

(i) Find $\angle DOB$. (2 marks)

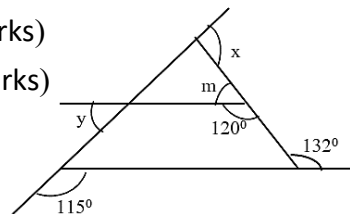
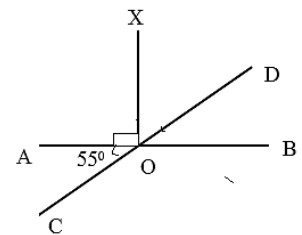
(ii) Find $\angle XOD$. (2 marks)

(b) According to the information marked in the figure.

(i) Find the value of x giving reasons. (2 marks)

(ii) Find the value of m giving reasons. (2 marks)

(iii) Find the value of y giving reasons. (3 marks)



6) (a) express $\frac{3}{5}$ as a percentage. (2 marks)

(b) Find the value of each of the following based on the value of $215 \times 13 = 2795$

(i) 2.15×1.3 (1 marks)

(ii) $\frac{27.95}{0.215}$ (2 marks)

c) Simplify.

(i) $\frac{5}{8} \times 1\frac{2}{5}$ (3 marks)

(ii) $4\frac{4}{5} \div \frac{8}{11}$ (3 marks)

7) (a) The general term of the triangular number pattern is $\frac{n(n+1)}{2}$.

(i) Find the 5th and 6th terms of the triangular number pattern. (4 marks)

(ii) Which term is the sum of the above two terms, in the pattern of square numbers starting from 1? (2 marks)

(b) The given figure is a signboard near of a bridge proposed for repair. A lorry of mass of 7.5 metric tons is loaded with 100 bags of rice having a mass of 50 kg each.

(i) Find the total mass of the lorry with the rice in metric tons. (2 marks)

(ii) Show that this lorry is not suitable to drive on the bridge. (2 marks)

(iii) What is the minimum number of bags of rice that should be removed from the lorry to safely cross the bridge. (1 marks)

Entry of vehicles with maximum weight of more than 12 t is prohibited.

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ඕනෑම තොරතුරු ඉක්මනින්
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