

**විශාකා විද්‍යාලය කොළඹ - 05**  
**Visakha Vidyalaya , Colombo - 05**  
**තුන්වන වාර පරීක්ෂණය - 2023 (2024)**  
**Third Term Test - 2023 (2024)**

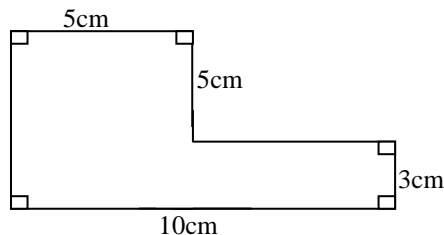
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Two hours and 30 min

## **Part I**

$$(+8) + (-3) + ( \quad ) = (+7)$$

9) Solve  $8x + 5 = 77$

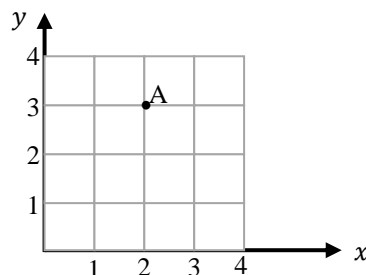
10) Find the area of the given figure.



11) Simplify  $\frac{1}{3} + \frac{2}{5}$

12) Express the ratio  $54 : 63 : 108$  in its simplest form.

13) If the  $x$  and  $y$  coordinates indicated by the point A on this coordinate plane are changed and the resulting point is named as B, write what are the  $x$  and  $y$  coordinates of B.

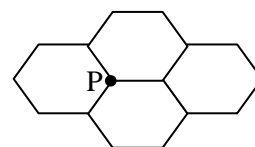


14) Write the mixed number  $2\frac{3}{20}$  as a percentage.

15) If a certain solid with 5 faces and 6 vertices obeys Euler's relationship, find the number of edges.

16) Consider this tessellation.

- (i) Which type of tessellation is this? .....
- (ii) What is the sum of the angles around the point P .....



17) The faces of a regular tetrahedron are numbered 1, 2, 3 and 4. The tetrahedron is rolled once and the number on the face that turns downward is observed. According to the possible outcomes, mention the type of following events.

- (i) Getting number 3 .....
- (ii) Getting a number less than 5 .....

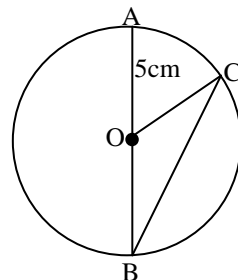
18) In a scale drawing of a rectangular land which is drawn to the scale 1:300, the length is 5cm. Find the actual length of the land.

19) Simplify  $1.5g + 1.557g$

20) The centre of the given circle is O

(i) Find the length of OC .....

(ii) Write which type of a triangle is OBC. ....



### Part II

• **Answer only 6 questions.**

(1) (i) Draw a Cartesian plane from 0 to 6 along the  $x$  axis and  $y$  axis.

**(2 marks)**

(ii) Plot the points given below on the above Cartesian plane.

**(4 marks)**

A (1, 1) , B(5, 1) , C (5, 5) , D (1 , 5)

(iii) Join the points with straight line segments in the order of the letters and return to the starting point and obtain a closed plane figure.

**(1 mark)**

(iv) Write the name of that plane figure.

**(1 mark)**

(v) Draw an axis of symmetry on the above plane figure.

**(1 mark)**

(vi) Write the coordinates of a point located on that axis of symmetry.

**(1 mark)**

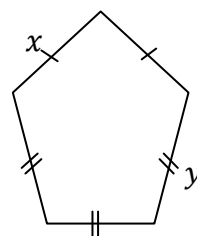
(2) (a)(i) Surangi who save same amount of money per day, bought a necklace for Rs. 450/= by adding another Rs. 66/= to the money she saved within 8 days. Build up a simple equation by taking the money she saved per day as Rs.  $x$ .

**(2 marks)**

(ii) Find the amount of money she saved per day by solving the equation.

**(2 marks)**

(iii) If the perimeter of the given pentagon is P, construct a formula among P,  $x$  and  $y$ .



**(1 mark)**

(b) A seller had 250 amount of Rambutan and he sold 150 from it.

(i) Write down as a fraction , the sold amount of Rambutan from the whole amount and write it in simplest form.

**(1 mark)**

(ii) Write the above fraction as a percentage.

**(2 marks)**

(iii) Write down as a fraction, the remaining amount of Rambutan from the whole amount and write it as a decimal.

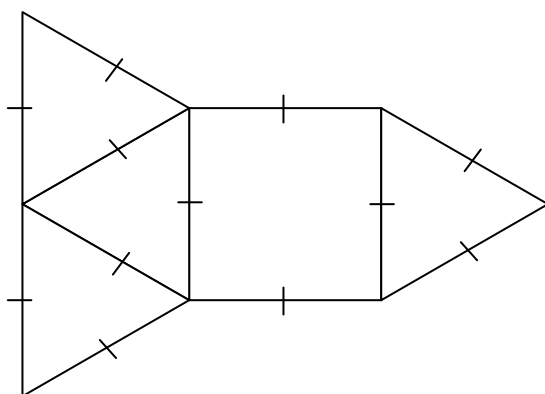
**(2 marks)**

- (3) A table with information on the number of toy cars that were produced from a factory during five weekdays is given below.

Day	Number of toy cars
Monday	250
Tuesday	375
Wednesday	300
Thursday	565
Friday	480

- (i) Represent this information by a column graph. **(8 marks)**
- (ii) Find the difference between the highest number of toy cars and the lowest number of toy cars. **(2 marks)**

(4) (a)

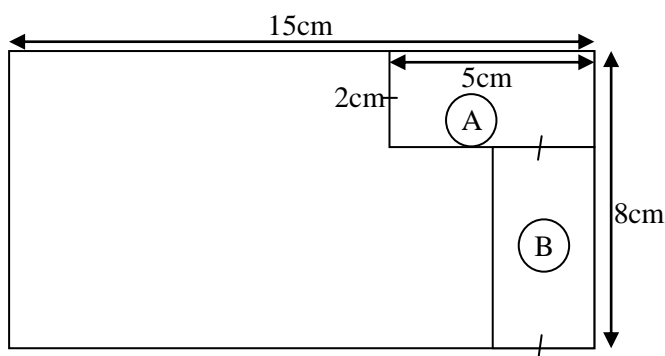


- (i) Write down the name of the solid that can be made by using the above net. **(1 mark)**
- (ii) Name the shapes of the faces of the given net. **(2 marks)**
- (iii) Write the number of faces, vertices and edges of the above solid. **(3 marks)**
- (iv) Show that the above solid satisfy the Euler's Relation. **(3 marks)**
- (v) Find the number of faces of the solid that has been constructed by coinciding and pasting the square faces of two identical solids mentioned in the above figure. **(1 mark)**

- (5) (a) The distance from the houses of Suneth and Binuka to the city are 750m and 2.25km respectively.

- (i) Show the ratio between the two distances in the simplest form. **(2 marks)**
- (ii) Write down an equivalent ratio for the ratio 2:5:7 **(1 mark)**
- (b) (i) The ratio between the length and the breadth of a rectangle is 3:2. If its perimeter is 80 cm then find the length and the breadth separately. **(3 marks)**
- (ii) A certain amount of money was distributed among Kalum ,Wasana and Tharaka in the ratio 2:3:5. The amount of money Tharaka obtained was Rs. 500 more than the amount obtained by Wasana. What is the total amount of money they distributed? **(2 marks)**
- (c) A fruit juice bottle at a sale contains 120ml of fruit juice. How many such bottles can be made by using 1.8l of fruit juice? **(2 marks)**

(6) A scale diagram of a rectangular play ground drawn to the scale 1:1000 is shown below. A swimming pool is denoted by A while a gym is denoted by B.



- (i) Find the actual length represented by 1cm in the above scale in metres. **(2 marks)**
- (ii) Find the actual length and the actual width of the swimming pool. **(2 marks)**
- (iii) Find the actual area of the swimming pool. **(2 marks)**
- (iv) Find the actual length of the gym. **(1 mark)**
- (v) Find the minimum length of two strands of wire needed to build a fence around the playground. **(3 marks)**

- (7) (i) Construct the straight line segment OA of length 4cm. **(1 mark)**
- (ii) Construct the circle of radius 4cm and centre O. **(1 mark)**
- (iii) Mark points B, C, D, E, F respectively on the circle so that they are equidistant from A. **(2 marks)**
- (iv) Join the points using straight line segments and complete the figure ABCDEF. **(1 mark)**
- (v) What is the name of the figure obtained? **(1 mark)**
- (vi) Find the perimeter of it. **(2 marks)**
- (vii) Construct the equilateral triangle BCX, considering the line segment BC as a side of the triangle. **(2 marks)**

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