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மேல் மாகாணக் கல்வித் திணைக்களம்
Department of Education - Western Province

වර්ෂ අවසාන ඇගයීම - 2024 (2025)
ஆண்டிறுதி மதிப்பீடு - 2024 (2025)
Year End Evaluation - 2024 (2025)

No 008064

ශ්‍රේණිය } 07
தரம் }
Grade }

විෂය }
பாடம் }
Subject }

Mathematics

පත්‍ර }
வினாத்தாள் } I, II
பaper }

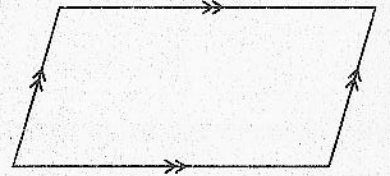
කාලය } 2 hours
காலம் }

නම }
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சட்டிலக்கம் }
Index No. }

Part - I

- Answer all questions from 01 to 20 on this paper itself.
- Each question carries 02 marks.

(1) The diagram shows a parallelogram. How many axes of symmetry in it?

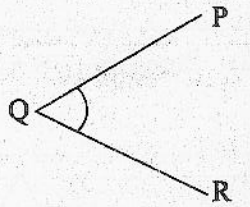


(2) Expand.

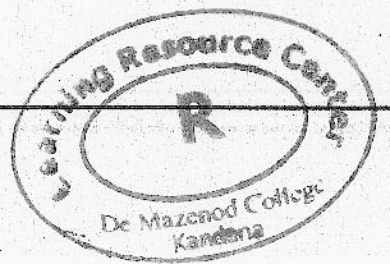
$$5^2 \times x^2 = \dots\dots\dots$$

(3) Write the numbers 2, - 3, 1, 0, 3, - 2 in ascending order.

(4) Name the angle given in the figure using the letters.



(5) How many $\frac{1}{5}$'s in 5.



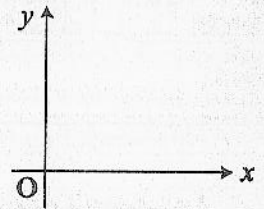
(6) If third triangular number is $3 + 2 + 1 = 6$ find the 7th triangular number.

(7) Write the ratio $4 : 2 : 6$ in simplest form.

(8) Fill in the blanks.

(1) Horizontal axis name as axis.

2) Vertical axis name as axis.



(9) If $\frac{527}{100} = 5.27$, find the value of $\frac{527}{10}$.

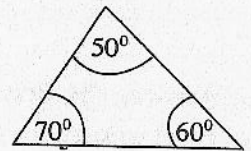
(10) The number 6562 is divisible by 3. Find the suitable digit for the empty space.

(11) Find the least common multiple of 24 and 32.

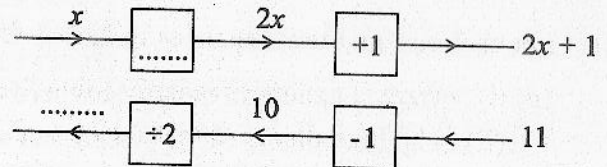
(12) Simplify. $8 + 28 \div 7 \times 5 - 9$

(13) Lithumi is 3 years, 01 month and 12 days older to her sister. If her sister's date of birth is 2011.02.16, find Lithumi's date of birth.

- (14) Write the name of the triangle given in the figure according to the angles.



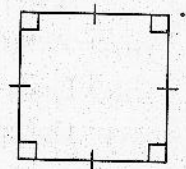
- (15) Complete the given flow diagram for $2x + 1 = 11$



- (16) Simplify: $\frac{1}{2} + \frac{1}{6}$

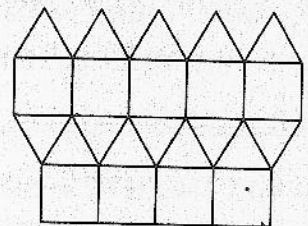
- (17) The mass of a bag is 100 grammes. When the 30 packets of biscuits put in to the bag the mass of it is 2500 grammes. Find the mass of one biscuit packet.

- (18) The perimeter of the square shaped lamina is 56 cm. What is the radius of the largest circle that can be cut from the lamina.



- (19) Write 243 in index notation with 3 as the base.

- (20) Write what type of tessellation shown in the figure.



Part - II

- Answer the first question and any other four questions.
- First question carries 16 marks and all other questions carry 11 marks each.
- Use separate papers to write the answers.

(01) Let us focus on a few instances in daily life where ratios are applied.

- (a) (i) Write 2 instances in daily life where ratios are applied.
- (ii) The ingredients to make sweetmeat are flour, sugar and butter, mixed 1 kg, 500 g and 250 g respectively. Write the ratio of flour to sugar to butter in the sweetmeat. Express it in the simplest form.
- (iii) Find the quantities of flour, sugar and butter separately required to make 2100 g of the above sweet meat.
- (b) Tessellation is used for the environmental decorations.
- (i) Write 2 facts that need to be considered when creating a tessellation.
- (ii) Create a semi pure tessellation that you like.
- (iii) Fill in the blank.
- The sum of the angles around a vertex point of a tessellation created using rectilinear plane figures is

- (02) (i) Draw a cartesian plane and plot the following points. Then join them with straight line segments in the order of the letters and return to the starting point.
- A (0, 0) B (6, 0) C (6, 4) D (0, 4)
- (ii) Write the name of the plane figure you obtained by joining the points.
- (iii) Draw the axes of symmetry of that figure.
- (iv) Name the intersection points of the axes of symmetry as P and write the coordinates of point P.

- (03) (a) (i) Construct the straight line segment AB of length 5 cm. Take AB as one side of an equilateral triangle and construct the equilateral triangle ABC.
- (ii) Draw a parallel line to AB through C.
- (b) (i) Write one example each of static angle and dynamic angle.
- (ii) Draw a reflex angle and name it as $\hat{PQR}$.
- (iii) Write the vertex and the arms $\hat{PQR}$.

- (04) (i) Name 02 solids which have triangular shaped faces.
- (ii) Draw a net of one solid which you mentioned above.
- (iii) Write the number of vertices, faces and edges of it.
- (iv) Write the Euler's relationship.
- (v) Show that the above mentioned solid in (iii) is satisfy Euler's relationship.

- (05) A table given below represents how the marks obtained by the grade 7 students of a certain school for several subjects in the second term test.

Subject	Number of Students Who obtained less than 40 marks	Number of Students Who obtained more than 40 marks
Mathematics	15	25
Sinhala	05	35
Science	10	30



- Represents the above information in a multiple column graph.
- How many students in grade 7.
- According to the graph, for which subject the students show the lowest competency level?

- (06) (a) Thamali spends $\frac{1}{4}$ of her money on stationery, 24% on clothes and deposits the rest 0.51 in a bank.

- Express the amount spent on stationery as a percentage.
- Express the amount she deposited in a bank as a percentage.
- For which purpose, Thamali has spend the least amount.
Write the reasons for your answer.

- (b) Simplify:

$$2\frac{1}{6} - 1\frac{3}{4}$$

- (c) Find the value of $(-3) + (-2)$ using the number line.

- (07) (a) The breadth of a rectangle is 'a' units. The length of it is 3 units more than its breadth.

- Write an algebraic expression for the length of rectangle.
- If the perimeter of the given rectangle is P, buildup a formula for P.
- If $a = 10$ units, find the value of P.

- (b) $A = \{\text{letter of the word 'election'}\}$

- Write the set A by listing its elements.
- The elements of the set A are written on cards separately and put in a box. Then a card is taken out. Write down whether each of the events given below is "an event which will definitely occur", "an event which will definitely do not occur" or "a random event."
 - Obtainig letter t.
 - Obtaining letter of the English alphabet.
 - Obtaining letter m.