

බස්නාහිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව இலங்கைப் பல்கலைக் கல்வித் திணைக்களம் Department of Education - Western Province	බස්නාහිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව மேல் மாகாணக் கல்வித் திணைக்களம் Department of Education - Western Province.	බස්නාහිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව இலங்கைப் பல்கலைக் கல்வித் திணைக்களம் Department of Education - Western Province
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වර්ෂ අවසාන ඇගයීම - 2024 (2025) ஆண்டிறுதி மதிப்பீடு - 2024 (2025) Year End Evaluation - 2024 (2025)		2025-01 No: 007016					
ශ්‍රේණිය தரம் Grade	08	විෂයය பாடம் Subject	Maths	පත්‍රය வினாத்தாள் Paper	I, II	කාලය காலம் Time	පැය 02යි
නම பெயர் Name							
.....							

I Part

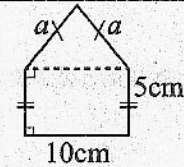
- Answer all questions on this paper it self.
- Each questions carries 02 marks.

01. Find the general term of the number pattern. 5, 11, 17, 23.....

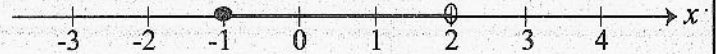
02. There are nine color pencils in a bottle. Three of them are red, two are green and other pencils are blue. Find the probability of a pencil taken out randomly from the bottle blue.

03. i. Simplify $(-5k) \times 2k$
 ii. Fill in the blanks. $2p + 4pq = 2p (1 + \dots\dots\dots)$

04. The perimeter of the given figure is 36cm. Find the value of a .



05. Write the inequality represented on the following number line in algebraic form.



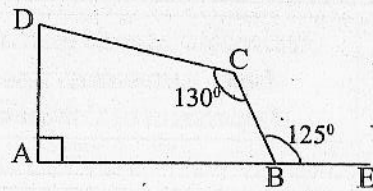
06. •In which of the following statements (-3) is being the answer?

- i. $(-2) + (-5)$
- ii. $(-12) \div (+3)$
- iii. $(+4) - (+7)$

07. Name two polygons which can be used for regular tessellation.

08. According to the information given in the figure.

- Find the value of $\hat{ABC}$.
- Find the value of $\hat{ADC}$.



09. The distance between two cities in a map drawn to the scale 1:50 000 is represented by 10cm. Find the actual distance between these two cities in kilometer.

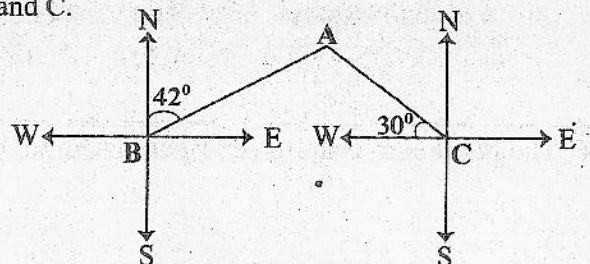
10. Find the value of $\sqrt{196}$ using prime factors.

11. Read the following statements carefully and if it is correct, mark a "✓" and if it is incorrect, mark a "x" in the brackets in front of it.

- Plane figures that do not have bilateral symmetry may have rotational symmetry. ()
- The order of rotational symmetry of the rhombus is 4. ()

12. The following diagram shows the position of A from point B and C.

- Write it down the direction of A from B.
- Write it down the direction of A from C.



13. Solve. $\frac{p}{4} - 3 = 2$

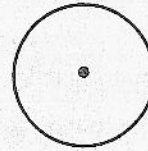
14. Find the value of $5 \div 1\frac{1}{4}$

15. When the time in -3 time zone is 08:30 on Monday, find the time in the city Athens in Greece. which is in the +2 time zone.

16. Fill in the blanks.

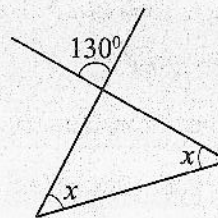
i. A part of a circle bounded by a chord and on arc is called a

ii. Draw a sector in the given circle and shade it.



17. There are 40 students in a class. 22 of them are girls. Express the number of boys as a percentage of the total number of students.

18. According to the information of the following diagram, Find the value of x



19. $a = (-1)^{25}$, $b = 2^3$ and $c = (-1)^{10}$ Fill in the blanks with $>$, $<$ or $=$

a b

c a

20. The time taken by a student in each day during a week to create a book is given below in minutes.
Find the median of that data.

30, 35, 38, 42, 40, 43, 50

II Part

- Answer the 1st question and any other 4 questions.
- First question carries 16 marks and each other questions carries 11 marks.
- Use separate papers to answer the questions.

01. (a) Answer the following questions by recalling the activities and subject matter learned in the lesson, construction of triangles as instructed by your teacher.

In the lesson construction of triangles it is recognized that is not always possible to construct a triangle with any three pieces of ekel.

i. Fill in the blanks in the following expression accordingly.

..... of the lengths of any two sides of a triangle is than the length of a remaining side. (2 Marks)

ii. Copy the table below in your answer sheet and choose the triples from the following groups that can be the length of sides of triangle. (2 Marks)

Length of sides	If a triangle can be formed mark "✓" and if not mark "x"
3cm, 4cm, 6cm	
4cm, 5cm, 9cm	

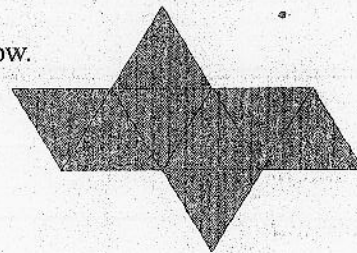
iii. Use only a straight edge with cm/ mm and a pair of compasses for the following constructions.

- Construct the straight line segment AB of length 8cm. (2 Marks)
- Construct ABC triangle such that AC = 6cm, BC = 10 cm. (3 Marks)
- Measure the manitude of $\hat{BAC}$. (2 Marks)

(b) Answer the following questions based on the subject matters and activities used in the solids lesson.

i. Write a common features found in platonic solid. (2 Marks)

ii. Which platonic solid did you create using the net given below. (2 Marks)



iii. Show that the above solid satisfy Euler's relationship. (2 Marks)

02. (a) Simplify.

i. $1\frac{1}{4} \times \frac{3}{5}$ (2 Marks)

ii. $\frac{3}{8} \div 2\frac{1}{4}$ (3 Marks)

(b) A = 12.4 , B = 100 and C = 0.31

i. Find the value $C \times B$ (2 Marks)

ii. Find the value $A \times C$ (2 Marks)

(c) How many pieces of 0.75m length can be cut form a 15m long ribbon? (2 Marks)

03. (a) The way that two women invested money in a joint venture in the same year is as follows.

▲ Nipuni invested Rs. 20 000 and started a business on 01st of January.

▲ Shakya invested Rs. 30 000 and joined the business on 01st of March.

One year after starting the business, it was decided to divide the profit between them.

i. How many months has Shakya been involved in the business? (1 Marks)

ii. Calculate the ratio in which the profit should be divided between them at the end of the year. (4 Marks)

iii. If the profit for the year was Rs 72 000, find the amount Shakya received more than Nipuni. (2 Marks)

(b) Mr. Gunasinghe's monthly salary is Rs 80 000. He separates 20% of his salary for food 30% for the education of his children and the rest of the salary for other expenses.

i. How much money does he separates for food? (2 Marks)

ii. How much money does he separate for other expenses? (2 Marks)

04. (a) i. Draw a cartesian plane with both the x axis and y axis marked from -5 to +5. (2 Marks)

ii. Marks the point A (3,3) and B (-4, 3) on the cartesian plane. (2 Marks)

iii. Mark the point C and D on the cartesian plane such that ABCD form a rectangle and write the coordinates of C and D. (2 Marks)

iv. Write the equation of the straight line AD. (1 Marks)

(b) Price of a pen is Rs. 25 Price of a book is Rs. a

A gift box contains three books and two pens.

i. Express the cost of gift box as an algebraic expression. (1 Marks)

ii. The cost of preparing five such boxes is Rs. 1525. Build up an equation and find the price of a book (1 Marks)

05. (a) A = { The multiples of 6, between 1 and 20 }

B = { The prime numbers between 10 and 20 }

D = $\emptyset$

i. Express the set A with the elements written with in the curly brackets. (2 Marks)

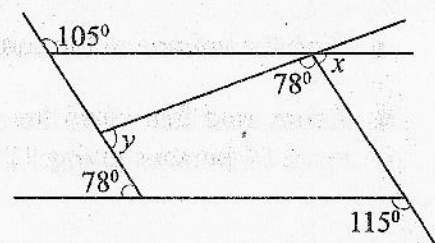
ii. $\in B$ Write all the appropriates numbers for the blank. (2 Marks)

iii. Find $n(D)$ (1 Marks)

iv. Write down an example for the null set in terms of a common characteristic of its elements. (2 Marks)

(b) Find the value of x and y giving reasons.

(4 Marks)

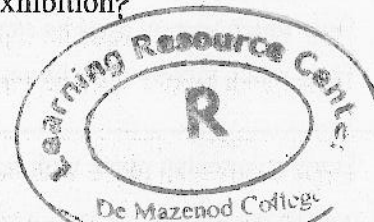


06. (a) Incomplete stem and leaf diagram representing the numbers of new creations received from several schools for an exhibition is given below.

Stem	Leaf					
2	0	2				
3	1	4	5			
4	0	0	2	3	6	
5	1	2	7			
.....						

Key: 3/1 means 31

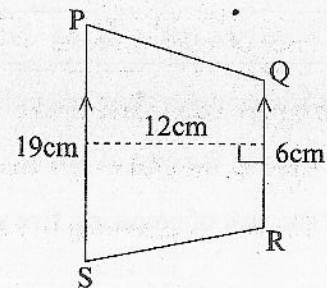
- The number of new creations 64 and 69 that received from two schools, is not mentioned here. Enter that data and complete the stem and leaf diagram. (3 Marks)
- How many schools have sent new creations for the exhibition? (1 Marks)
- Find the range of this data (2 Marks)
- Find the mode of this data (1 Marks)



- (b) A paddy storehouse has 17.5t of paddy. A lorry can transport only 40 bags of paddy weighing 50kg each at a time. How many times does the lorry need to travel to transport all the amount of paddy in the storehouse. (4 Marks)

07. (a) PQRS is a metal sheet used for a name plate.

- i. Find the area of the triangle PQS. (2 Marks)



- ii. Find the area of the quadrilateral PQRS. (3 Marks)

- iii. If $SR=15\text{cm}$ and $PQ = 13\text{cm}$, find the minimum length of the thread required to paste a silver colored thread around the plate. (1 Marks)

- (b) The length, breadth, and height of a container are 15cm, 12cm and 10cm respectively.

- Find the volume of the container. (2 Marks)
- Ashan said that when the container is fully filled with kingcoconut water, it is sufficient to serve 16 persons giving 125ml for each person. Do you agree with this idea? Explain. (3 Marks)