



බස්නාහිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව  
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**මேல் මාකාணක කல்විත් තිணைக்களம்**  
**Department of Education - Western Province**

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**වර්ෂ අවසාන ඇගයීම**  
**ஆண்டிறுதி மதிப்பீடு - 2019**  
**Year End Evaluation**

ශ්‍රේණිය } **08**  
தரம் }  
Grade }

විෂයය } **Mathematics**  
பாடம் }  
Subject }

පත්‍රය } **I, II**  
வினாத்தாள் }  
Paper }

කාලය } **02 Hours**  
காலம் }  
Time }

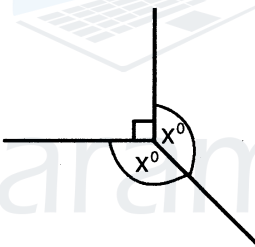
Name : ..... Index No : .....

**Part I**

- Answer all the questions on this paper itself.
- Each question carries two marks.

(1) If  $A = \{ \text{odd numbers between 6 and 14} \}$ , write  $n(A)$

(2) Find the value of  $x$ .



(3) Express as a product of two factors.  $12a^2b + 18ab^2 - 30ab$

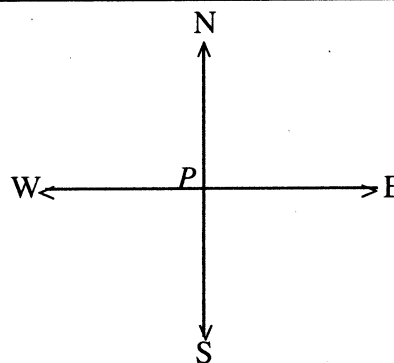
(4) Mass of a lorry is 6.58 t. 2800kg of rice is loaded into the lorry. What is the mass of the lorry with the above items?

(5) Write in ascending order  $(-2)^3, 3^2, (-1)^{2019}, 1^{2018}$

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- (6) Q is located 200 m away from P, in the direction of S  $30^\circ$  W. Draw a sketch to represent the above information.



- (7) Simplify.  $7\frac{1}{7} \div 8\frac{1}{3}$

- (8) If the following statements are true make '✓' and if they are wrong mark '×' in the blank boxes.

(i) Semi pure tessellations contain only one plane figure.	
(ii) Regular tessellations can be created using squares with same size.	

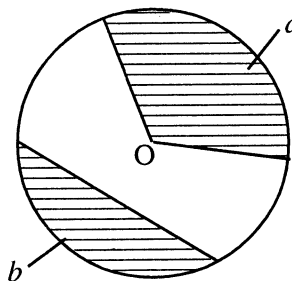
- (9) In a bag there are 17 identical pens with blue, black and red colours. 8 of them are blue and 5 are black. All the other pens are red. If a pen is taken randomly from the bag, find the probability that the pen being a red pen.

- (10) Actual length of 40 m is represented by 5 cm in the scale diagram. Write the scale used in the diagram as a ratio.

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- (11) In the circle with the center O, regions *a* and *b* are shaded. Underline the correct statement regarding *a* and *b*.

- (i) *a* is a sector, *b* is a chord.  
 (ii) *a* is a sector, *b* is a minor arc  
 (iii) *a* is a sector, *b* is a minor segment.  
 (iv) *a* is a sector, *b* is a major segment.



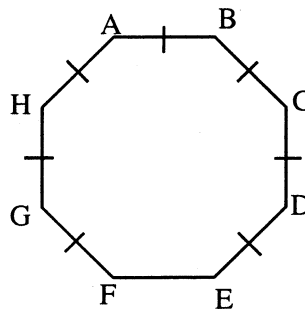
- (12) Solve.  $11 - \frac{5}{9}c = 1$

(13) Fill in the blank boxes using suitable numbers.

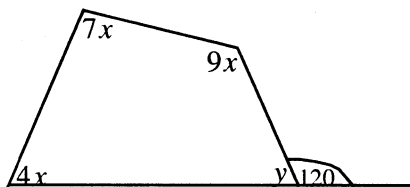
$$\frac{(-8) \times \boxed{\phantom{000}}}{(-12)} = \frac{(+24)}{(-12)} = \boxed{\phantom{000}}$$

(14) ABCDEFGH is a regular octagon.

- (i) How many axes of symmetry are there?  
 (ii) What is the order of rotational symmetry?



(15) In the given figure, find the values of  $x$  and  $y$ .



(16) General term of the triangular number pattern starting at 1, written in ascending order is  $\frac{n(n+1)}{2}$ .  
 What is the 19<sup>th</sup> triangular number?

(17) Write the percentage corresponding to the ratio 3 : 5.

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(18) Express the answer as a mixed number.  $\frac{5}{8} \times 6$

(19) Area of the base of cuboid shaped tank is  $8400 \text{ cm}^2$ . When 420 liters of water is put into the tank, find the height of the water in tank.

(20) Equilateral triangular shaped iron frame with the length of a side 16 cm is unfolded and a rectangle with the breadth 5 cm is made. Calculate the length of the rectangle.

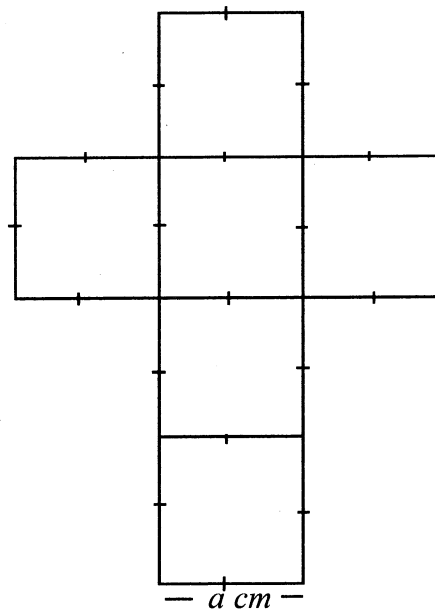
## Part II

- Answer the first question and another 04 question only.
- First question carries 16 marks and other questions carry 11 marks each.

- (1) Recollect the activities done in the lessons area, volume and solids with the guidance of your mathematics teacher.

Figure shows a net of a solid prepared by Nimal.

- (i) What is the name of the solid that Nimal wants to prepare?
- (ii) Give an example for that solid.
- (iii) If the length of the side of it is ' $a$ ' cm, express the surface area of the solid in terms of ' $a$ '.
- (iv) If the surface area of the solid that Nimal made is  $600 \text{ cm}^2$ , Find the value of  $a$
- (v) Calculate the surface area of a cuboid with the length, breadth and height 40 cm, 25 cm, 20 cm respectively.
- (vi) How many liters of water are needed to, fill the cuboid with the above measurements?
- (vii) Name two other platonic solids except the solid made by Nimal.
- (viii) In a certain solid, there are 13 vertices and 24 edges. How many faces are there in it?



- (2) Marks obtained by Piyal for 10 subjects in the first term evaluation is given below.

78, 57, 83, 91, 82, 69, 70, 78, 63, 87

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- (i) Represent the above information in a stem and leaf diagram.
  - (ii) What is the maximum value of the data?
  - (iii) Using the maximum value, write the "key".
  - (iv) Find the range of the data.
  - (v) Find the median of marks obtained by Piyal.
  - (vi) Nanda scored 32 more marks than Piyal, and became the first in the class. Calculate the mean mark of Nanda.
- (3) (a) Perimeter of the triangle ABC is 23 cm.
- (i) If  $AB = 9 \text{ cm}$ ,  $BC = 7 \text{ cm}$ , Find the length of AC.
  - (ii) Using the straight edge and the pair of compasses, construct the triangle ABC.
  - (iii) According to the lengths of the sides what type of a triangle is ABC?
  - (iv) Measure and write the magnitudes of the angles of the triangle ABC.
- (b) Can there be a triangle with the side lengths 5 cm, 7 cm and 13 cm? Give reasons for your answer.

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- (4) (a) (i) Draw a cartesian plane where the  $x$  - axis and  $y$  - axis are marked from -6 to 6.  
 (ii) Mark the points A (0, 4) B (4, 0) C (0, -4) D (-4, 0) on the cartesian plane that you have drawn.  
 (iii) Draw the straight lines  $y = 2$  and  $x = -1$  on the same cartesian plane.
- (b) (i) Represent the inequality  $-2 \leq x < 3$  on a number line.  
 (ii) Write all the integral solutions which satisfy the above inequality.

- (5) (a) Use  $86 \times 237 = 20\,382$  and find the value of following expressions.

(i)  $8.6 \times 23.7$

(ii)  $0.086 \times 0.237$

(iii)  $\frac{203.82}{0.237}$

(iv)  $\frac{20.382}{8.6}$

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- (b) Rs. 10 200 is divided among A, B and C according to the ratio 2 : 3 between A and B and 5 : 3 between B and C
- (i) Write the ratio in which the money was divided between A, B and C.  
 (ii) Express separately the amounts received by each of them.

- (6) When the time in Sri Lanka, in the  $+5\frac{1}{2}$  time zone is 09 : 45 on Sunday 2019 - 04 - 21,
- (i) Find the time and date in Greenwich.  
 (ii) Find the time and date in the -9 time zone.  
 (iii) In which time zone does the time and date becomes 17 : 15 on Saturday 2019 - 04 - 20?
- (b) 60% of Students in a certain mixed school are girls. Number of boys in the school are 1136. How many students are there in the school?

- (7) (a) (i) A parcel has six books of value ' $a$ ' rupees each, three pens value ' $b$ ' rupees each and two pencils value ' $c$ ' rupees each. Write an expression for the total value of the parcel.  
 (i) A person who decided to donate 10 such parcels, paid Rs. 6 500 to the shop owner to buy it. Write an expression for the balance he received.  
 (iii) If  $a = 90$ ,  $b = 20$ ,  $c = 12$ , calculate the balance amount after buying the 10 parcels.
- (b) (i) Write 1764 as a product of prime factors.  
 (ii) Find the value of  $\sqrt{1764}$