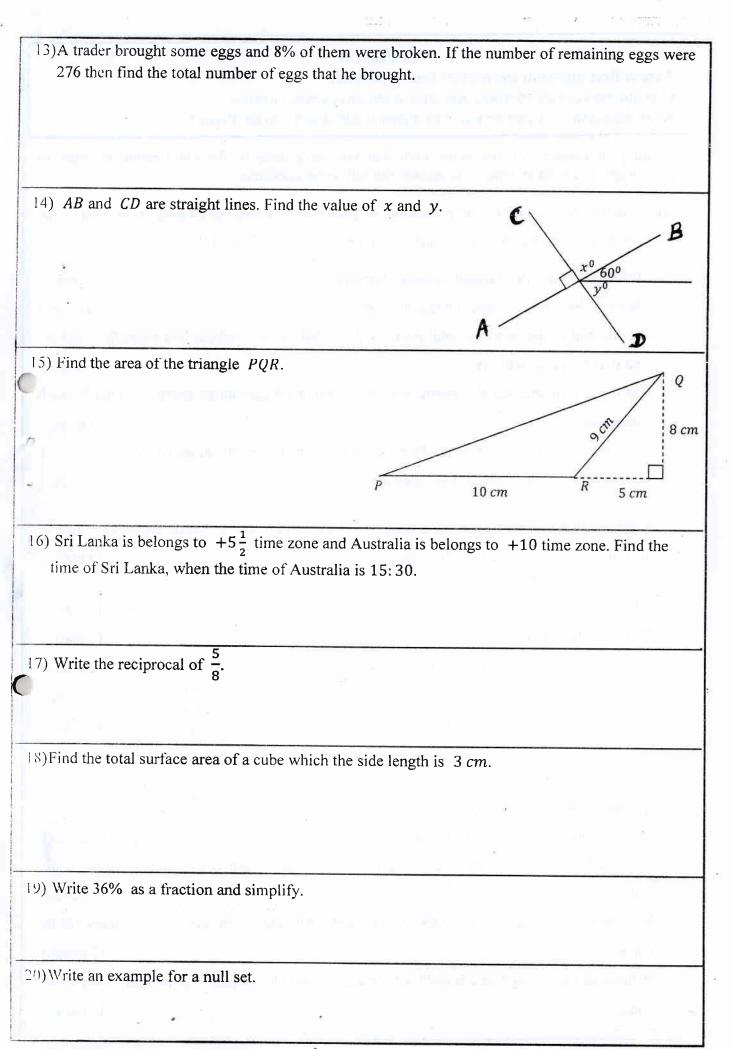
## සියලු හිමිකම ඇවිරිණි. [All right reserved] කැලණිය අධාාපන කලාපය Kelaniva Education Zone කලාපය Kelaniva Education Zone කැලණිය අධාපපත කලාපය Kelaniya Education Zone කැලණිය අධාහපත කලා ණීය අධානපන කලාපය Kelaniya කැලණිය අධාහපන කලාපය Education Zone කැලණිය අධා Zone කැලණිය අධාහපන කලාපය Kelaniya Education Zone 2010 ucation Zone කැලණිය අධාහපත **Kelaniya Education Zone** කලාපය Kelamya Education Z laniya Education Zone කැලණිය අධාාපන කලාපය Kelaniya Education Zone කැලණිය අධාාපන කලාපය Kelaniya Education Zone කැලණිය අධාාපන කලාපය Kelaniya Education Zone දෙවන වාර ඇගයීම - 2017 Second Term Evaluation - 2017 ලශ්ණිය විෂයය කාලය 02 Hours **Mathematics** Time Grade Subject Name/ Index Number..... Paper I Answer all questions from 1 to 20 on this paper itself. Each question carries 02 marks in Paper I (02 X 20 = 40 marks) 1) Write the next two terms of the number pattern 26, 24, 22,... 2) In the angle $45^{\circ}$ Write the supplement. i. ii. Write the complement. 3) Find the value of (-8) - (-2). A) If AB is a straight line, find the value of a. 5) Find the number of edges in the following figure.

6) Find the H. C. F of the numbers 36, 24,	60.	
	The state of the s	
7) In a certain house 2kg 75g of rice required per day. Find the mass of rice they required for week.		
ice erm ill all anni f	Eduling I	
8) Find the value of $(-5)^3$ .		
<ul><li>9) In a regular hexagon,</li><li>i. How many symmetrical axes?</li></ul>		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ii. Find the order of rotational sy	mmetry.	
10) If $\frac{1}{4}$ of a bread given to one child, to how	w many children can 7 loaves of	bread are given?
11) If $64 \times 17 = 1088$ then, find the value	of 0.64× 1.7.	
	No et al.	
12) If $\frac{a}{3} + 1 = 3$ then find the value of a.		
		ent t
	200223 0 F	



## Paper II

- Answer first question and another four questions.
- First question carries 16 marks and other questions carries 11 marks.
- Write the answers in another paper for Paper II and attach it to the Paper I.
- Recall your memory on the assessment that you have done in the class room, in order to percentage, fractions and ratio and answer the following questions.
  - (a) Nishadi started a business on production of plants by investing Rs.24 000. At the end of the 8<sup>th</sup> month of the year, Samadhi joined with her by investing Rs.48 000.
    - i. What is the time that Nishadi invested her money?

(1mark)

ii. What is the time that Samadhi invested her money?

(1mark)

- iii. At the end of the year, the total profit will divided among Nishadi and Samadhi. Find the ratio of the profit will divide. (2 marks)
- iv. At the end of the year the profit was Rs: 30000. Find amount of profit received by each separately. (4 marks)
- v. Express as a fraction that the profit received by Nishadi from the money invested.(2 marks)
- vi. Express the profit of Nishadi as a percentage.

(3 marks)

- (b) A certain sweet is made by mixing flour and sugar in the ratio 4:1 while sugar and butter in the ratio 3:2. Find the ratio of flour, sugar and butter. (3 marks)
- 2) i. Solve: 5(y + 2) = 50

(2 marks)

ii. Find the value of  $54.24 \div 0.4$ 

(2 marks)

iii. Simplify: 4x(x - 5) - 2x(x + 8)

(2 marks)

iv. If x = 2, y = 1 and z = -2 then find the value of 2x - 3y + 5z

(2 marks)

v. Write 576 as a product of prime factors.

(2 marks)

vi. Find the value of  $\sqrt{576}$  using the above answer.

(1 mark)

- 3) The perimeter of a square is 36 cm.
- (a) i Find the length of a side of that square.

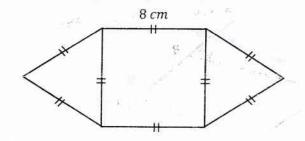
(2 marks)

- ii. Find the length of a side of an equilateral triangle which is equal in perimeter of the above square.

  (2 marks)
- iii. Write the suitable values of 3 sides of an isosceles triangle which is equal in perimeter of the above square. (2 marks)
- iv. Write a suitable length and breadth of a rectangle which is equal in perimeter of the above square. (2 marks)

(b) Find the perimeter of the following figure.

(3 marks)



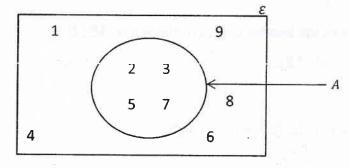
4) (a) i. Write a set which n(A) = 5.

(2 marks)

ii.  $B = \{letters\ of\ the\ word\ "KATHARAGAMA"\}$ , Write the set B as list.

(2 marks)

(b) According to the given Venn diagram,



i. Write the set A as a list.

(2 marks)

ii. Write the set A as a description.

(2 marks)

iii. Write the elements of the universal set.

(1 mark)

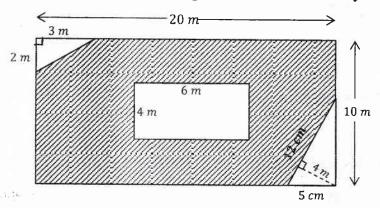
iv. Find the value of n(A).

(1 mark)

v. Find the value of  $n(\varepsilon)$ .

(1 mark)

5) The following figure shows the plan of a garden which is drawn by an architecture.



Triangular portions denote the flower beds and rectangular portion denotes a pond.

Find the total area of the garden.

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(2 marks)

iii Find the area of two flower beds.

(4 marks)

iii. Find the area of the pond.

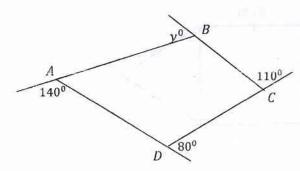
(2 marks)

iv. Find the area of the shaded portion which is grass planted.

(3 marks)

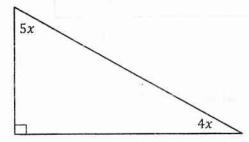
6) Answer the following questions according to the given figure.

(a)



- i. Find the value of x. (2 marks)
- ii. Find the value of y. (2 marks)
- iii. What is the sum of the interior angles of the figure ABCD? (1 mark)
- iv. What is the value of  $\widehat{ABC}$ ? (2 marks)

(b) Find the value of x in the following triangle. (3 marks)



- 7) (a)
  - i. Find the value of  $2\frac{1}{4} \times \frac{5}{9}$ . (3 marks)
  - ii. Simplify:  $1\frac{2}{5} + 2\frac{1}{3}$ . (3 marks)
  - iii. Find the value of  $\frac{5}{8} \div 1\frac{1}{2}$ . (3 marks)
  - (b) A father gave  $\frac{3}{5}$  of his land to his son. The remainder was given to his daughter. What is the fraction that daughter has? (2 marks)