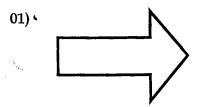
மேல் மாகாணக் க	ාත්ව විස්තාතිර පළාත් අධිනාපන දෙපාර්තමේන්තුව - කොළඹ අධා බාබේද රිගත් ගා සාකෙක් සන්බේජ ජිකකක්සකාග - මසා(ගුරා) ස බාබේදු විසින් වෙන්න විසින් සම්බේද සිට්ට විසින් සම්බේද විසින් සම්බේද	() () () () () () () () () ()					
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ක්ලාපය වස්තාහිර පළාත් අධ්නපත දෙපාර්තමේන්තුවල - කොළඹ අධ්නපත දේපාර්තමේන්තු ලේපාල් අධ්නපත දෙපාර්තමේන්තුවල - කොළඹ ක්ලාපය වස්තාහිර පළාත් අධ්නපත දෙපාර්තමේන්තුවල - කොළඹ අධ්නපත දේපාර්තමේන්තු - කොළඹ මූහුණා ලේඛ ප්‍රයේඛ ප්‍රයේඛණ ප්‍රවේඛණ ප්‍රවේඛණ අධ්නපත විශ්ය දේපාර්තමේන්තු - අධ්නපත විශ්ය දේපාර්තමේන්තුව - කොළඹ							
	Second Term Evaluation - 2016						
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7 ලශ් ණිය <i>தரம் 7</i>	கணிதம் வினாத்தாள்	் நை மணித்தியாலம்					
Grade 7	Mathematics Paper I	Two Hour					

Part - I

- Answer all questions.
- Each question carries two marks.



How many symmetrical axes are there in the following figure.

Capacity of a table spoon is 5ml. It is decided to give two table spoons three times per day. What is the amount of medicine needed?

03) Write in index form,

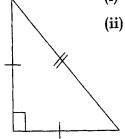
3 x 3 x a x 3 x 3

- 04) An example for a static angle which the arms are not static is an,
 - (a) Angle between the edges of a cover of a book.
 - (b) Angle between the sporks of a bicycle.
 - (c) Angle between the hour hand and minute band.

,	Simplify.	Years	Month	ns Days			·
	1 5	8	5	12			
		- 2	10	24			
						•	
				•	·		
	6x - 3	, ,					
	algebraic ferm		•				
	coefficient of	the alget	raic teri	m :		******	
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	Cimalify	ď	mσ		. ;		
U6)		\mathbf{g}	mg	•			
08)	Simplify.	4	25				
08)	∞ արհա ձ.	4	25 ×6				
08)	∞πιħπ.	4	25 ×6	- .			
08)	∞արհա,	4		 =			

10) My fathers' age is 4 times as my age. Now my age is x. Build up an algebraic expression for the age of my father 8 years ago.

11) Name the following triangle.



(i) according to sides

(ii) according to angles

12) A piece of length 1 m 25cm is cut off from a rope with the length of 50m. Find out the length of the remæining piece of the rope.

13) Simplify. 4a - 5 = 7

7 cm
3 cm
7 cm

Find the area of the figure.

15	Birthda	vofa	person i	s 1900.06.02
ĸυ,	Diffilla	y UL a	heranni	5 1 200.00.02

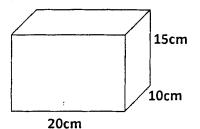
- (i) Which century his birthday belongs?
- (ii) ls it a leap year?
- 16) Find the value.
 - (i) 2.48×6
- (ii) $37.3 \div 10$

17) 2.25 l of water and 750 ml of fruit juice was mixed to prepare a soft drink. What is the amount of one glass if the soft drink is divided into 15 glasses equally in militres?

- 18) Is a rhombus a regular polygon? Give reasons.
- 19) What is the smallest number which is divisible by 15, 18 and 24.
- 20) According to the given figures.

How many such small boxes can be packed inside the large box. (maximum number of

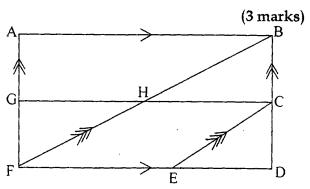
boxes)





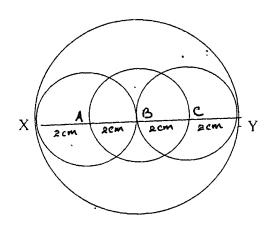
Answer question number one and four others. (16 marks for question (1) and 11 marks for the each of the other questions.)

- (1) (i) Recall the lesson about the rectilinear plane figures. What is the type of the assessment given by your mathematics teacher regarding the above lesson? (1 mark)
 - (ii) List out occasions where you can see the following parallel lines in the environment.
 - (a) Horizontal parallel lines
 - (b) Vertical parallel lines
 - (c) Slant parallel line
 - (iii) According to the figure drawn above, name,
 - (a) A pair of horizontal parallel lines
 - (b) A pari of vertical parallellines
 - (c) A pair of slant parallellines
 - (d) A parallelogram
 - (e) A.trapezium



(5 marks)

(iv)



- (a) How many circles are there in the above figure? (1 mark)
- (b) What is the centre of the circle with the diameter AC? (1 mark)
- (c) What is the radius of the circle with the centre A. (1 mark)
- (d) What is the diameter of the circle with the radius C. (1 mark)
- (e) Complete the blanks.

AB radius = radius (1 mark)

XB diameter = diameter (1 mark)

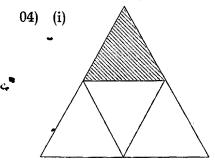
AC diameter = radius +radius (1 mark)

- 02) (i) "Multiply x by 2 and subtract three". Build an algebraic expression for the above statement.
 - (ii) Give the algebraic expression $\frac{a}{4}+1$ in words (2 marks)
 - (iii) Simplify.
 - (a) 2a-a+8-6
 - (b) 4x + 5y 3 2x 2y (2 x 2 = 4 marks)
 - (iv) If x = 5, y = 2, find the value
 - (a) 2x 3y 3
 - (b) 2y + 3x 8 $(2 \times 2 = 4 \text{ marks})$
- 03) (i) Build up a numerical expression for the following "Add three to five and multiply the answer by two" (1 mark)
 - (ii) Nadun says, the answer is five for the question. $21 6 \div 3$ Show that his answer is incorrect and explain the mistake he made while obtaining the answer. (2 marks)
 - (iii) Simplfiy.
 - (a) $20 \div 4 1$

(b) $25 + 5 \times 4 \div 2$

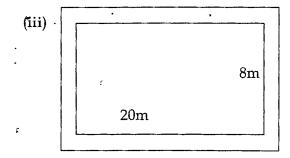
- (c) 5(6+2)-5
- (d) $45 \div 3 3 \times 4$

 $(2 \times 2 = 4 \text{ marks})$



The area of the shaded part is 8 cm². Find the area of the figure approximately. (2 marks)

- (ii) (a) Find the area of a rectangle where length 20cm breadth 50cm? (1 mark)
 - (b) Find the length of a side of a square with the same area as the above rectangle. (2 marks)



There is a road of 2m breadth around a rectangular land. The length and the breadth of the land is 20m and 8m repectively.

(a) Find the length and breadth of the land with the road.

(2 marks):

(b) Find the area of the land with the road.

(2 marks)

(c) Find the area of the road.

(2 marks)

(05) Construct the following using mathematical instrument.

Draw a line segment AB of length 8cm.

.

(1 mark)

(ii) Draw the angle $\stackrel{\circ}{ABC} = 120^{\circ}$

- (2 marks)
- (iii) Mark point C such that BC = 6.5 cm and complete triangle ABC.
- (2 marks)
- (M) Mark Point Court and a large of the court of the cour
- Linain
- (iv) Draw a-line through C vertex parallel to BA, using the ruler and the set square.
- (2 marks)
- (v) Mark the point D on the parallel line 8cm away from the vertex C.
 - (D Situated on the same side of vertex A)

(2 marks)

(vi) Join A and D and measure and write the length of AD.

(1 mark)

(vii) What is the name of the figure obtained?

(1 mark)

- (06) (i) $A = \{Prime numbers between 0 and 10\}$
 - (a) Represent the above set using the other two methods.

(2 marks)

(b) "2 is an element of set A". Is this true?

(1 mark)

- (ii) Write down the elements of the following sets as a list.
 - (a) P = {Letters of the word "MAHARAGAMA"}
 - (b) $X = \{\text{even numbers}\}$

 $(2 \times 2 = 4 \text{ marks})$

(iii) $T = \{6, 12, 18, 24\}$

Write the set T in the description form.

- (iv)
- a e i o u
- (a) Write the elements of the set R as a list.
- (2 marks)

(b) Suggest a suitable name for set R.

(1 mark)

- 07) (i) Find the value of (-6) + (+5) using the number line. (2 marks)
 - (ii) (a) Write all the possible ways that you can write 48 as a product of two factors.
 - (2 marks)

(b) Find all the factors of 48 using the above result.

(1 mark)

(ifi) Find the highest common factor of 30, 24, 18

(2 marks)

- (iv) Simplify.
- (ii) (a) $2\frac{1}{5}+1\frac{1}{3}$

(2 marks)

(b) $5\frac{5}{6}-2\frac{1}{4}$

(2 marks)
