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YI	EAR END EVALUATION 2022 / 2023	
Grade 8	MATHEMATICS	2 hours
Name / Index Number		
	PART I	

- Write down the answers for all the questions in the paper itself.
- Each question carries 2 marks.

1. General term of a number pattern is 4n. What is the 15^{th} term of the number pattern?

2. Place a ($\sqrt{1}$) in front of the correct statements and Place a (x) in front of the incorrect statements about directed numbers.

i) Multiplying 2 directed numbers with different signs gives a positive number.	()
ii) Dividing 2 directed numbers with different signs gives a positive number.	()

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$(60^{\circ} x^{\circ})$

4.	Solve.	$\frac{x}{2}$ –	1 =	= 5

3. Find the value of x°

5. Find the value $(-2)^3 \times 2^2$

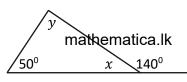
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6. What is the order of rotational symmetry of a rhombus?

- 7. Underline the answer with 5 platonic solids.
 - Icosahedron, Dodecahedron, Cube, Regular tetrahedron, Cuboid i.
 - ii. Square based pyramid, Cube, Cuboid, Dodecahedron, Icosahedron
 - Cube, Regular tetrahedron, Regular octahedron, Regular Icosahedron, Regular Dodecahedron iii.
 - iv. Cube, Icosahedron, Dodecahedron, Regular octahedron, Cuboid

8. Find the value of *x* and *y*

- $x^{\circ} =$
- $y^{\circ} =$



Grade 8 - Mathematics - Southern Province

9. Simplify 12 t \div 5, Write the answer in kg

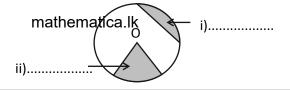
10. Simplify. $\frac{2}{7} \times \frac{3}{4}$

11. Represent 48:36 in the simplest form.

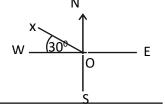
12. The capacity of a water tank is 2500 *l*. If the length is 2.5m and breadth is 1m, find the height of the tank.

13. Find the value taken for x to get equal value for mode and median in the set of data 4, 1, 2, 2, 3, 5, x, 8, 3, 1

- 14. Sri Lanka is in the + 5 $\frac{1}{2}$ time zone. When the time in Malaysia is 14:30 find the time in Sri Lanka (Malaysia is in +8 time zone)
- 15. Which of the following is not the units place of a perfect square?1) 12) 23) 54) 9
- 16. Name the segment and the sector of the circle of centre O

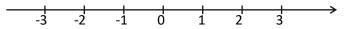


17. Write the location of X as seen from the point O using the information given.



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18. Represent $x \ge -1$ on the number line given.



- 19. There are 5 white beads, 3 blue beads and 2 red beads in a bag, which are identical in size and shape. A bead is drawn randomly from the bag,
 - i. Find the probability of drawing a blue bead
 - ii. Find the probability of drawing a white or red bead

20. Remove the brackets and simplify. 3(5x-1) - 8x.

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MATHEMATICS - PARTII

• Answer 5 questions only.

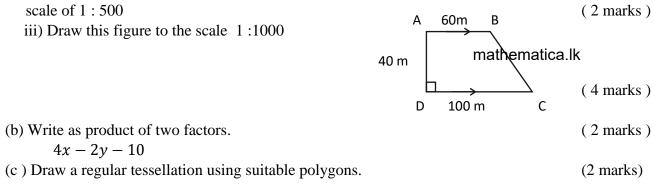
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• Each questions carries 12 marks.

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1. The fr	lasses o	of bags 1	n kilogi	ammes o	01 24 Stuc	ients wh	o participating for	a trip are given below.
20	20	28	17	15	24	44	51	
10	29	12	23	25	32	34	18	
30	36	36	40	36	42	13	15	
	(1 mark)							
ii. What is the maximum mass of a bag ?							(1 mark)	
iii. Represent the above data in a stem and leaf diagram.						(5 marks)		
iv. What is the range of the above collection of data?					(2 marks)			
•	v. W	hat is th	ie mode	?				(1 mark)
vi. Find the median mass				(2 marks)				
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 13 m 5 5 m 0 in this decided to stick a fubber band around a triangulat length of rubber band needed to stick around 4 blades. ii. Find the area of blade A iii.Find the area of metal plate need to construct all 4 black iv. The price of 1 m² of metal plate is Rs.1 000 and the price of 1 m of rubber band the total cost to construct this machine. 						(3 marks) all 4 blades (2 marks) bber band is Rs.500. Find		
the total cost to construct this machine.(b) Find the surface area of a cube of side length 8 cm				(3 marks)				
03. (a)Fat	her dec	ides to g	give $\frac{2}{5}$ o	f the land	l to his so	on Vishv		(2 marks)
								(2 marks)
	0					01	1 0	his three daughters.
ii. Wr	ite the p	oart of th	ne land	did a dau	ighter rec	ceive as	a fraction of total l	and. (2 marks)
iii. If d	laughter	receive	es 15 pe	rch, wha	t is the to	otal amo	unt of land owned	by the father?(2 marks)
(b) 6	50% of v	workers	in a off	fice are for	emales. T	The num	ber of male worke	rs are 36. Find the total
number of workers in the office. (3 marks					(3 marks)			
c) The ra	tio betw	ween A	and B is	s20 : 7. V	Vrite the	ratio bet	ween B and A. W	rite it as a percentage.

(3 marks)

04. i) Construct the triangle ABC such that $AB = 7$ cm, $BC = 5$ cm and AC	= 6 cm (4 marks)					
ii) By considering the lengths of the sides which type of triangle is that?						
iii) Measure and write the magnitudes of the angles $A\hat{B}C$, $A\hat{C}B$ and $B\hat{A}$						
separately.	(3 marks)					
iv) Find the value of $A\hat{B}C + A\hat{C}B + B\hat{A}C$						
v) Find the midpoint of the straight line AB and name it as O. By takin	ng AB as the diameter and					
draw a circle .	(3 marks)					
05.(a) Fill in the blanks using the symbols \in , \notin , \subset , \subseteq						
i. 13{ prime numbers}	(1 mark)					
ii. { 7 } { composite numbers }	(1 mark)					
iii. 5{ triangular numbers}	(1 mark)					
(b) i) $A = \{$ letters of the word "MAHARAGAMA" $\}$						
Write the elements of the above set within curly brackets.	(2 marks)					
ii) Find n (A)	(1 mark)					
iii) Write the above set in another notation.	80° (2 mark)					
(c) Find the values of x and y using the information given in the figure. x						
<u> </u>	y <u>110°</u>					
06. i) Draw a Cartesian plane numbered from -5 to +5 in both axis and plot	t the points given below.					
(-3,2),(-1,2),(1,4),(3,2),(5,2),(5,-2),(3,-2),(1,-4),	(-1, -2), (-3, -2) (3 marks)					
ii) Join the points in order and get a closed figure.	(3 marks)					
iii) Write the equation of the axis of symmetry of the figure.						
iv) Write two coordinates which lies on $x = 2$						
07. (a) i) In a scale diagram, 1cm represent 400 m of actual diagram. Write	the scale as a ratio.(2 marks					
ii) What is the actual length represented by 5 cm in a scale diagram	which is drawn to the					





කෙටි සටහන් |පසුගිය පුශ්න පතු |වැඩ පොත් සඟරා | O/L පුශ්න පතු | A/L පුශ්න පතු |අනුමාන පුශ්න පතු |අතිරේක කියවීම් පොත් | School Book ගුරු අතපොත්



පෙර පාසලේ සිට උසස් පෙළ දක්වා සියළුම පුශ්න පතු, කෙටි සටහන්, වැඩ පොත්, අතිරේක කියවීම් පොත්, සඟරා **සිංහල සහ ඉංගුසි වාධාරයෙන් ගෙදරටට ගෙන්වා ගැනීමට**

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