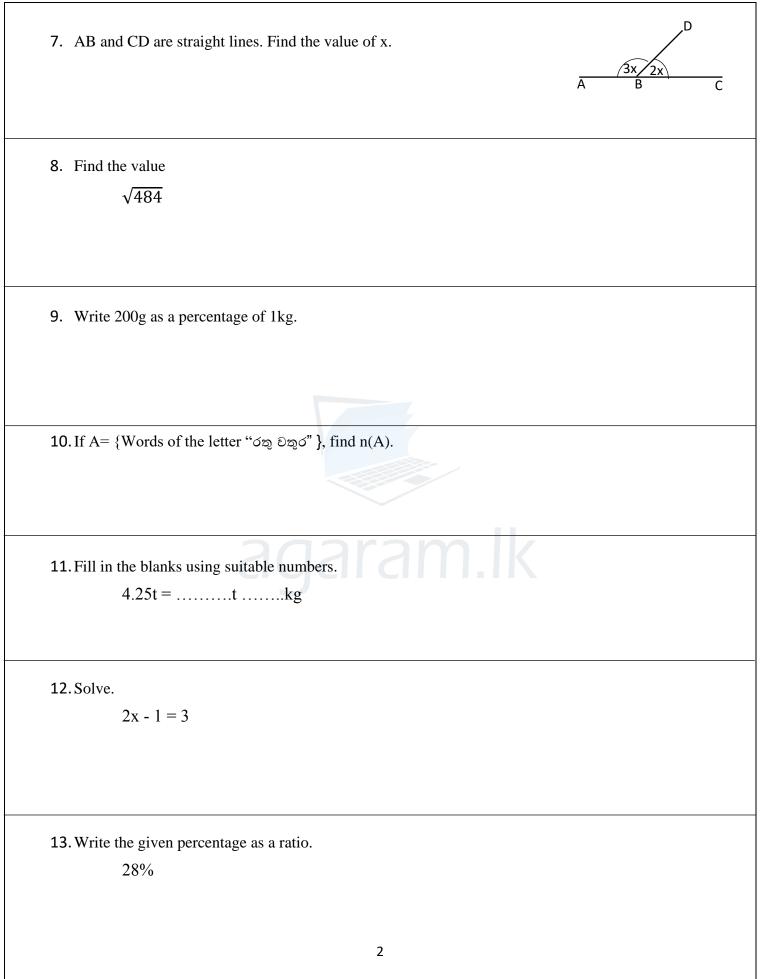
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යලු ම හිමිකම ඇවරිනි පුරා පළුවද ාකානයක. නු Il Rights Reserved								
බස්නාහිර පළාත් අධ්යාපන දෙපාර්තමේන්තුව ගෙல් மாகாணக் கல்வித் திணைக்களம் Department of Education - Western Province								
වර්ෂ අවසාන ඇගයීම ஆண்டு இழுதி மதிப்பீடு - 2021 Year End Evaluation								
ලේණිය தரம் Grade 8 විෂයය Grade 8 Nathematics විෂයය Subject 9 Mathematics වලය Paper 9 I, II විෂය Paper 9 I, II විෂය Hours 2								
Name : Index number :								
Part 1								
• Answer all the questions on this paper itself.								
 Each question carries 02 marks. 1. Write the next two terms of the given number pattern. 								
1, 3, 6, 10,,								
2. x and 42^0 are a pair of complementary angles. Find the value of x.								
3. Find the value. (i) $(-2) \times (+3)$ again and (ii) $(-8) \div (-2)$								
4. If $a = (-2)$, find the value of a^3								
5. The centre of the circle is O. Write the name given to the shaded part of the circle.								
6. Remove the brackets and simplify.								
4(x-2) + 3x								
1								
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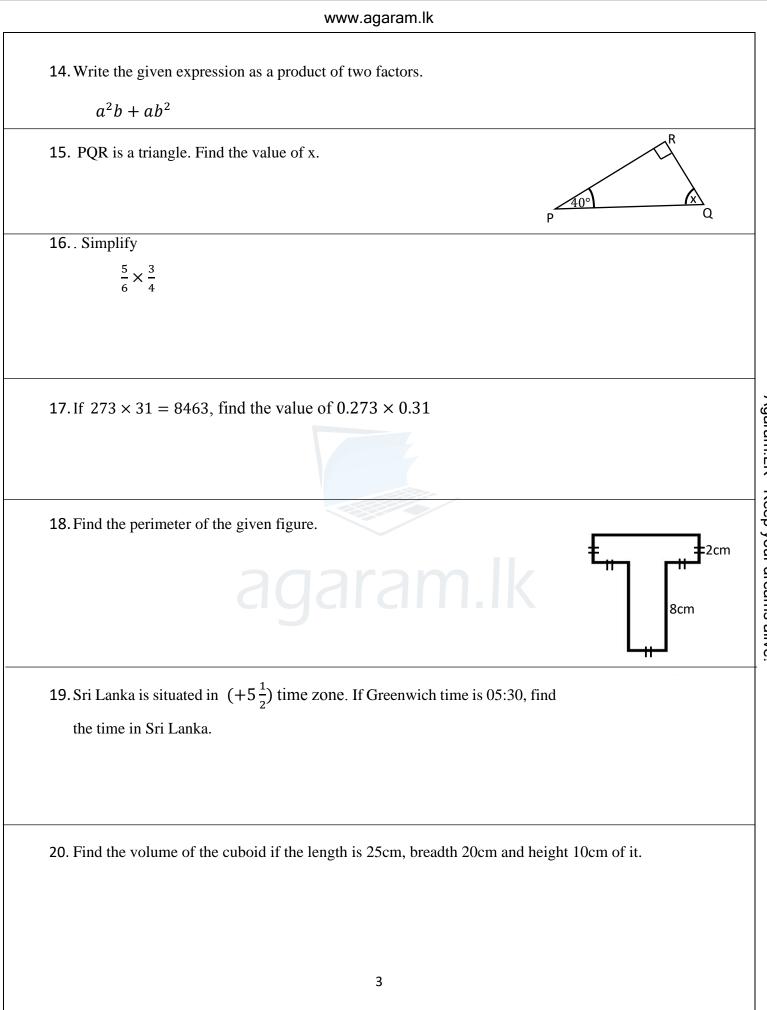
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Part 11

- Answer the first question and another four questions only.
- The first question carries 16 marks and the other questions carry 11 marks each.
- 1) A cube and a regular tetrahedron are two platonic solids.
 - a) Write the names of the other platonic solids.
 - b) Draw a shape of the face of one solid that you have mentioned above(a).
 - c) Euler's relationship is satisfied with the solid which has 30 edges and 12 vertices.
 - i. Write the Euler's relationship.
 - ii. Find the number of faces it has.
 - iii. Write the name of that solid.
 - d) Find the total surface area of a cube of side length 8cm.

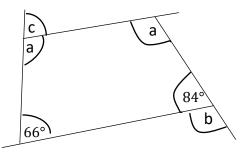
2) Find the value.

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- a) $\frac{5}{9} \times 1\frac{1}{5}$
- b) $3\frac{2}{11} \div 2\frac{1}{2}$
- c) $87.6 \div 0.12$
- a) Find the value of a, b and c, using the information given in the figure.
 - b) A tessellation created using only one regular polygonal

shape is known as a regular tessellation.

i. Name two polygons that can be used to create regular tessellations.



ii. Draw a regular tessellation using one polygon that you have written above (i).

4

- 4) a) Write the order of rotational symmetry of the plane figures given below.
 - i. equilateral triangle
 - ii. square
 - b) find the value
 - (-4) (-2) + (+3)
 - c) Solve. 2(x+1)-1 = 5

d) The locations of three places P, Q and R in the horizontal plane are given below.

- Q is situated 600m from P in the direction 60^0 East of North.
- R is situated 400m from Q in the direction 400 East of South.

Draw a sketch to show the locations of places P, Q and R with measurements based on the above information.

5) a) The masses of a group of children are given below in kilogrammes.

12, 15, 18, 10, 12, 17, 16, 14

Find

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- i. the mode
- ii. the median of the above data.

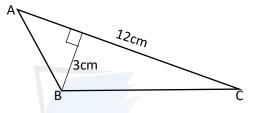
b) Construct a triangle ABC, with side lengths AB = 6cm, BC = 5cm, AC = 8cm

c) A box contains 5 cards numbered 1, 2,3,4 and 5. A card is drawn randomly from the box by a child. Find the probability of drawing a square number.

- 6) a)Represent the inequality $-2 < x \le 3$ on a number line.
 - b) A(1,1) B(5,2) C(7,1) D(7,-3) E(5,-4) F(1,-3)
 - i. Draw a suitable Cartesian plane and mark the points given above.
 - ii. Join that points in the given order to get a closed figure.
 - iii. Write the equation of the axis of symmetry of the figure drawn above.

7) a) Find the area of the triangle ABC.

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b) Find the surface area of a cuboid shaped wood of length, breadth and height equal to 12cm, 8cm, and 5cm respectively.

c) The table below shows the ratio of flour, sugar and butter used by A and B companies to produce the same sweetmeat.

Company	Flour: Sugar	Sugar : Butter
A	2:1	3:2
В	3:2	5:4

Which company produces the sweetest sweetmeat? Give reasons for your answer.



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	<u>1 කොටස</u>					
1.	15, 20		2	12. X = 2		2
				2x=4		1
2.	48°		2			
	$x + 42^\circ = 90^\circ$	1		13. 28 : 100	1	
				7:25	1	2
3.	(i). (-6)		1	7 : 25 පමණක් වුවත් ලකුණු 2 දෙන්න.		
	(ii). (+4)		1			
				14. ab (a + b)		
4.	(-8)		2	1 1		2
	$(-2)^3$	1				
F			2	15. $x = 50^{\circ}$		2
5.	වෘත්ත ඛණ්ඩය /සුළු වෘත්ත බ	ම්සිය	2	$x + 40^{\circ} + 90^{\circ} = 180^{\circ}$	1	
6	7x - 8		2			
0.	4x-8+3x	1	2	$16.\frac{5}{8}$		2
	AA = 0 + JA	1		<u>15</u> 24	1	
7.	$x = 36^{\circ}$		2212	m lk		
	$3x + 2x = 180^{\circ}$		JUIC	17. 0.08463		2
8.	22		2	18. 32cm		2
	$484 = 2 \times 2 \times 11 \times 11$	1		$2 \times 5 + 8 \times 2 + 6$	1	
9.	20%		2	19. 16 : 00		2
	$\frac{200}{1000} \times 100\%$	1				
	1000			20. $5000cm^3$		2
10.	n (A) = 3		2	$25 \times 20 \times 10$	1	
	A = { ර, තු, ව }	1				
11.	<u>4</u> t <u>250</u> kg					ලකුණු 40
	1 බැගින්		2			

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