Negombo Educational Zone
Second Term Evaluation - 2022
Mathematics

Index No :.....

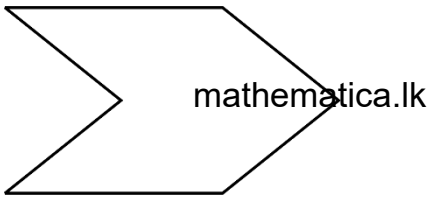
Grade 7	Paper I & II	Duration: 2 hours

Part I

* Answer the questions from 1 to 20 on this paper itself.
* Each question carries 2 marks.

1. Evaluate. $5 + 8 \times 3$

2. How many axes of symmetry are there in this figure?



3. Simplify. $4x + 5y + 5x - 3y$

4. **549A2**, this number is divisible by 3. Write a suitable value for the digit A.

5. Write down an example for each Static and Dynamic angles that can be seen in the environment.

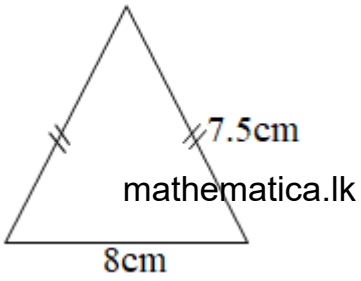
6. Write in index notation. $m \times m \times n \times n \times n$

7. A television programme started telecasting at 20:00 and finished telecasting at 21:15. Find the duration of the programme.

8. Evaluate. (-1) + (+8)

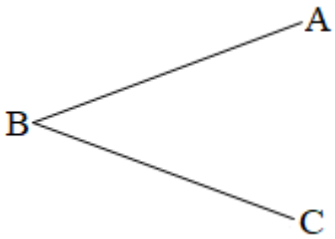
9. A bottle contains 750ml of soft drink. Write down the amount of soft drink in such 5 bottles in litres.

10. Find the perimeter.



11. P = {Multiples of 5 between 10 and 30}. Express the set P by using a Venn diagram.

12. In the angle given in the figure,

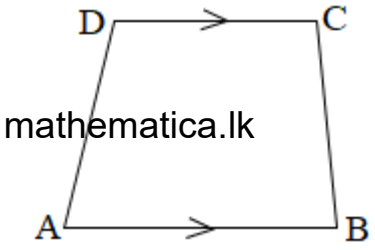


(i) name the arms.

(ii) name the vertex.

13. Solve. $3a - 7 = 8$

14. Write down the pair of parallel sides and the pair of sides which are not parallel in this figure.

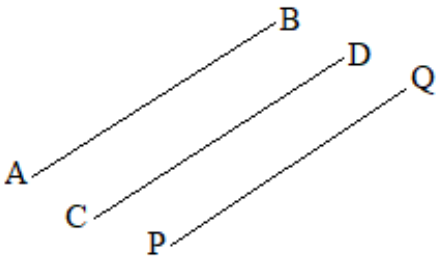


15. Express the mixed number as a decimal number. $2\frac{1}{4}$

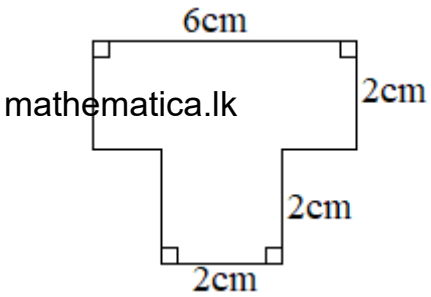
16. 18 pencil boxes ,24 lunch boxes and 30 umbrellas were brought for a prize distribution . Parcels were prepared including all the above three items in equal amounts for each parcel.How many parcels can be prepared?

17. The three sides of a triangle are 6cm, 5cm and 6cm. Write down the type of the triangle according to the length of the sides.

18. On the figure given, show the parallelism of the line segments AB, CD and PQ.



19. Find the area of this compound figure.



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20. Given that, $7.25 \times 5 = 36.25$ Using it, find the values of the following without calculating.

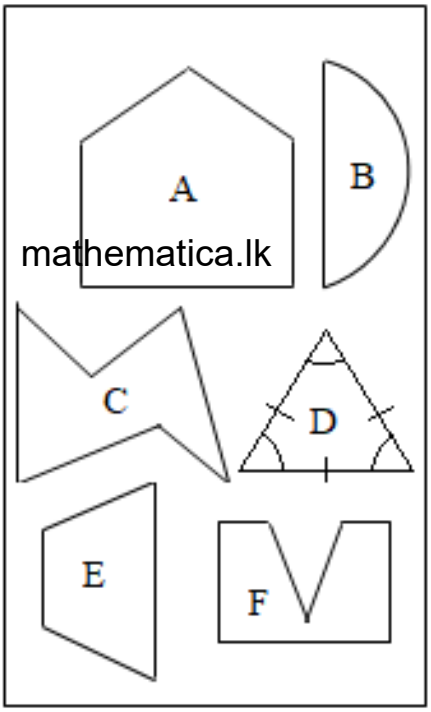
$72.5 \times 5 =$

$725 \times 5 =$

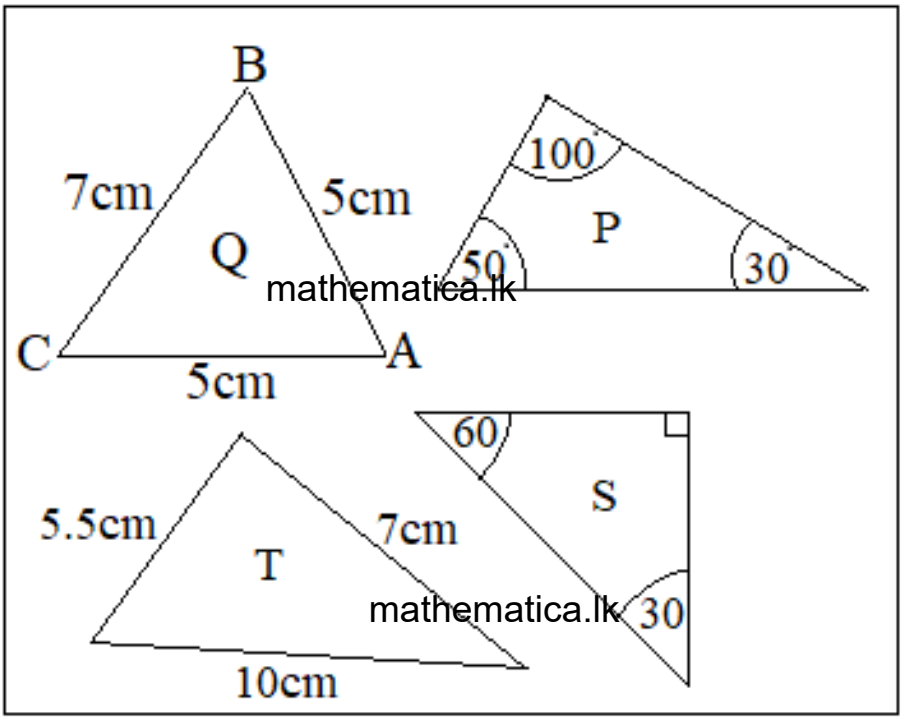
Part II

- Answer the first question and another 4 questions.
- First question carries 16 marks and 11 marks for each of the others.

1) Given below are two work sheets prepared for an assignement. Study them well and answer the questions given below.



X



Y

Answer using the work sheet X.

a)

i. Write down the English letters of 2 polygons.

ii. Write down the English letters of 2 Convex polygons.

iii. Write down the English letters of 2 Concave polygons.

iv. Write down 2 properties of a Regular polygon.

v. Writ down an English letter of a Regular polygon.

Answer using the work sheet Y.

b)

i. Name the triangles P and S according to the magnitudes of the angles.

ii. What is the name of the triangle Q, according to the length of the sides ?

iii. Write down the perimeter of the triangle T.

iv. Measure the three angles of the triangle Q.

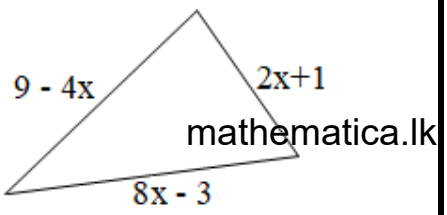
$\hat{A}$ = …… $\hat{B}$ = …… $\hat{C}$ = ……

2)

a) write down an expression for the number which is five less than four times of the number represented by m

b) If, x =3 and y = 2, find the value of $3x^2 - 2y$.

c) write an algebraic expression for the perimeter of the triangle given below.



d) Solve. $3x + 2 = 20$

3) A tailor said that $1\frac{1}{4}$ metres of a white material is needed for a shirt and $2\frac{5}{8}$ metres of the same white material is needed for a frock. Mother gave 4 metres of the white material which costst Rs. 450 per metre, to the tailor.

i) How much of the white material of the same type is needed for the frock and the shirt? Write down your answer as a mixed number in metres.

ii) Express the amount remained after sewing both as a fraction.

iii) How much was spent on the white material by mother?

4) A nutrition packet of 210g contains the following.

Carbohydrates	56.7g
Protein	57.5g
Fat	25.45g
Iron	25.8g

i. What is the total mass of the above nutritional ingredients?

ii. Express the above mass in miligrams.

iii. What is the mass of the packet without the nutritional ingredients?

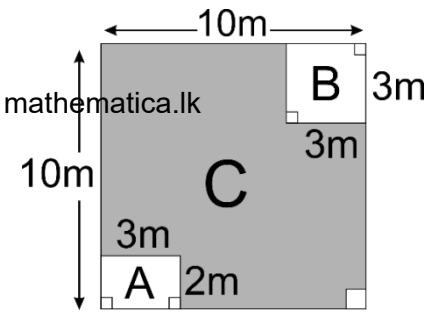
iv. Find the mass of 5 such nutritional packets in grams.

5)

a) The perimeter of an equilateral triangular shaped wall decoration is 54cm 9mm. Find the length of a side in millimetres.

b) The length of a cuboid is 10cm and the breadth is 8cm. If the volume of it is $320cm^3$, find its height.

c) Find the area of the shaded region C according to the measurements given in the figure.



6) a) "Sameera Soft Drink Products" issues 120 bottles of soft drink bottles of 800ml in each for the market everyday.

i. Find the total amount of soft drink produced within a day in litres.

ii. A bottle that one customer was bought was divided among 5 friends equally, find the amount of soft drink got by one friend in millimetres.

iii. If the amount of soft drink produced is increased upto $120\ l$ per day , find the number of bottles produced in a day.

b)

i. Add.

	Y	M	D
	3	08	15
+	2	04	19

ii. Subtract.

	Y	M	D
	12	06	18
−	8	04	23

7)

a) P is a multiple of 3 between 10 and 20.

i) Express the set P by writing the elements within curly brackets.

ii) Express the set P by using a Venn diagram.

b)

i) Draw a circle with a radius of 3cm.

ii) Name the centre of the circle as O.

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iii) Name a point on the circle as A.

iv) Produce the line AO, so that it meets the circle again at B.

v) Write down the name of the line AB.

vi) Write down a relationship between the length of AO and the length of AB.

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