

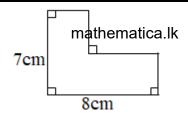
Negombo Educational Zone Second Term Evaluation -2022 Mathematics

Index No:

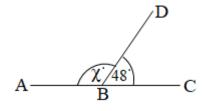
Grade 8	Paper I & II	Duration: 2 hours
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Paper I Answer all the questions.

- 1) Find the 5^{th} term of the number pattern with the general term 3n + 1.
- 2) Find the perimeter of this figure.



3) Find the value of x.

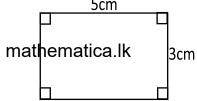


- 4) Find the value of (+8) (+3).
- 5) Evaluate. $\sqrt{2 \times 2 \times 3 \times 3 \times 5 \times 5}$
- 6) Evaluate. $(-5)^2$
- 7) If $5.3 \times 2.5 = 13.25$, find the value of 0.53×2.5 .

8)	Express $\frac{23}{7}$ a	s a mixed	number

- 9) If the price of 1kg of dhal is X rupees, write down an expression for 250g of dhal.
- 10) Simplify. $\frac{2}{7}$ x 28
- 11) If the length and the breadth of this rectangle is doubled ,how many times will the area of the new rectangle be, with respect to the rectangle given?

 5cm



- 12) Find the Highest Common Factor of the algebraic terms, 4x, 8xy, 12xy.
- 13) Express $\frac{3}{5}$ as a percentage.
- 14) Solve the equation, 2x + 7 = 9.
- 15) Find the time in Greenwich England, when the time in Rome Italy is 17:30, which is located in (+1) time zone.
- 16) Simplify. (+3) x (-6) x (-2)

17) The ratio of the metals X and Y in an alloy is 5:4. The ratio between the metals Y and Z in the same alloy is 2:1. Find the compound ratio of the metals X, Y and Z in the alloy.
18) Fill in the blanks using suitable symbols from ∈ and ∉.
5 { Prime Numbers }
18
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19) Simplify. $3 - 0.72$
20) Express 1060kg in Metric Tons.

Paper II

- Answer 5 questions including the first question and 4 more.
- First question carries 16 marks and 11 marks for each of the others.

1.

a) Given below is the way that Kelum and Tharindu invested money on a business.

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Name	Amount invested	Date of investment	No. of months of the investment in the year 2021	Amount invested × No. of months
Kelum	Rs. 80 000	2021/01/01	months	X
Tharindu	Rs. 60 000	2021/07/01	months	X

- i) Fill in the blanks in the table above.
- ii) Express how the profit should be divided among Kelum and Tharindu as a ratio in its simplest form.
- iii) If Rs. 22 000 is received as the profit at the end of the year, find the profit gained by each one separately.

- b) An alloy is made by mixing Iron and Zinc. The amount of Zinc in the mixture is 168g. The amount of Iron mixed is 52%.
 - i) Find the percentage of Zinc mixed.
 - ii) Find the total mass of the mixture.
 - iii) Find the mass of Iron in the mixture.
 - iv) Find the ratio between the masses of Iron and Zinc in the mixture.

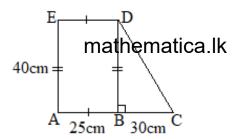
2.

i) Fill in the following table about solids.

Platonic solid	Vetices	Faces	Edges
Regular octahedron		8	
Regular dodecahedron	20		
Regular icosahedron	12		30

- ii) Name the other Platonic solids which are not mentioned in the above table.
- iii) What is the shape of a face of a regular dodecahedron?
- iv) What is the shape of a face of a regular octahedron?
- v) What is the order of rotational symmetry of a square?

3. (a)



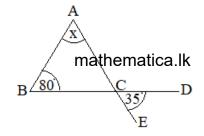
Given above is a sketch drawn to make a pandol in a school.

- i) Find the area of the rectangle ABDE.
- ii) Find the area of the triangle BDC.
- iii) Find the total area of the sketch.
- iv) Find the perimeter of the sketch, if DC is 50cm.
- (b) Find the perimeter of a square shaped garden with an area of 25m².

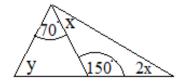
- 4. (a) List out the elements of the following sets.
 - $i)P = \{ Triangular numbers between 0 and 10 \}$
 - ii) Q = {Letters of the word "COLOMBO"}
 - iii) $R = \{Multiples of 4 between 1 and 4\}$
 - iv) Write the values of n(P), n(Q) and n(R).

(b)

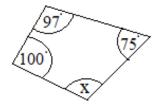
- i) $A = \{1, 4, 9, 16, 25\}$ Express the set using a common characteristic.
- ii) Express the set A using a Venn diagram.
- 5.
- i) Find the value of x.



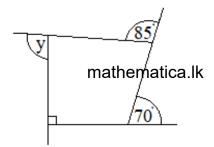
ii) Find the values of x and y.



iii) Find the value of x.



iv) Find the value of y.



6.

(a) Solve the following equations.

i)
$$\frac{x}{6} = 3$$

ii)
$$2(x-4)=6$$

iii)
$$\frac{x}{7} - 2 = 3$$

(b)

- i) Express as a product of two factors. 15x 30
- ii) Express as a product of two factors. 2a 4ab + 24ac
- iii) Find the value of x^3 , if x = (-2)

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7. From the stock of eggs that Sunil took for selling from his farm, $\frac{1}{10}$ was broken.

- i) Express the unbroken eggs as a fraction.
- ii) If the number of unbroken eggs is 63, find the number of eggs taken for selling by Sunil.
- iii) Find the number of broken eggs.
- iv) Express the number of eggs which could be sold, as a fraction of the total number of eggs.
- v) If an egg could be sold at a price of Rs. 45, find the total amount received by Sunil by selling the eggs.



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