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Gampaha Education Zone

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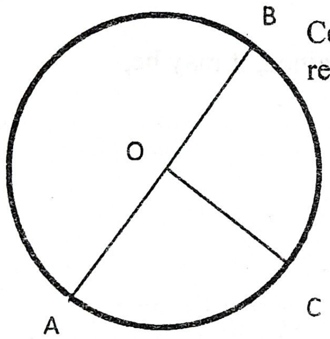
Second Term Evaluation - 2024

Grade	7	Subject	Mathematics	Paper I and II	Time	2 Hours

NAME -.. Index No. -....................................

- Answer all the questions in Paper 1 on this paper itself.
- Each question carries 2 marks.
- Grade 7 mathematics paper consists of 6 pages.

Paper 1

1. 

Centre of the given circle is O. Select and underline the incorrect response.

i. AO=OC
ii. 2CO=AB
iii. AO= BO= CO
iv. 2AB= CO

2. How many 50g packets can be made from **4Kg 50g** of tea leaves?

3. Place the mark "✓" if the statements are correct and the mark "✗" if incorrect.

	Statement	Response
i	There are 4 axes of symmetry in a rectangle.	
ii	A circle has many axes of symmetry.	

4. Simplify. 24 - (31+4) ÷ 7

5. Select the correct statement related to the number "Eighteen billion one hundred fourty four".

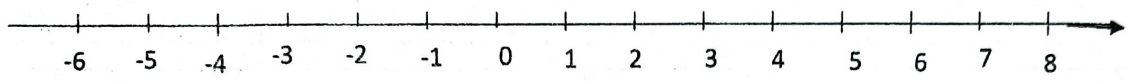
i. Can be divided by 10 & 11 without a remainder.
ii. Can be divided by 9 & 4 without a remainder.
iii. Can be divided by 5 & 4 without a remainder.
iv. Can be divided by 4 & 10 without a remainder.

6. Write all the factors of 56.

2	56
2	28
2	14
7	7
	1

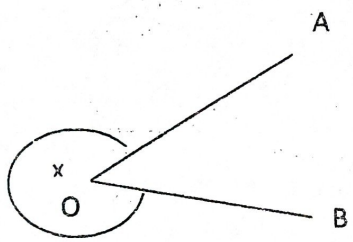
7. $2^3 \times 3^2$ Find the value.

8. (+5) + (-2) Find the value using the number line given below.



9. A.D. 2048, belongs to third millennium.
   i. belongs to ..... century.
   ii. belongs to ..... decade.

10. Underline the correct answer.



When the magnitude of the angle x is obtained, it may be,

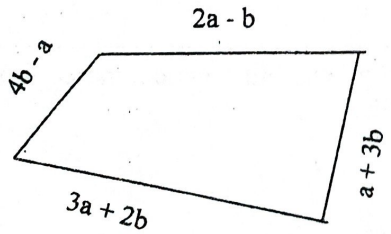
i. A reflex angle of 315^0
ii. An acute angle of 45^0
iii. A right angle of 90^0
iv. A straight angle of 180^0

11. $\frac{23}{20}$ Represent as a decimal.

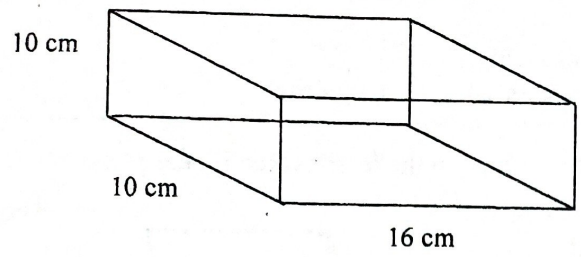
12. Simplify.

Kg	g
13	107
	X 8

13. If the perimeter of the figure is **P**, express P in terms of a and b.



14. Find the volume of the cube given below.



15. Find the L.C.M. of 18, 24, 36

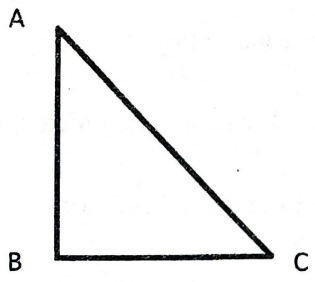
16. $(+17.2) + (-8.7)$ Find the value.

17. Date of birth of a person is **2003- 11- 26**. Find his age on **2024- 08- 05**

18. Solve $9 - x = 4$

19. Find the value of $2ab^2$ by substituting $a = 5$, $b = -3$

20.

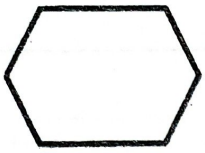


By drawing parallel lines to the side AB, BC and AC of the triangle, construct a triangle outside the ABC triangle.

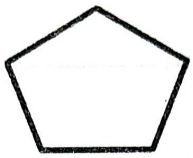
Paper II

- Answer the first question and **4 other questions only**.
- First question carries 16 marks and other questions carry 11 marks each.

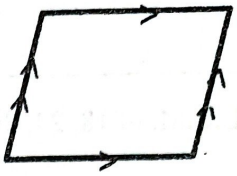
1. Recall the subject matters and activities you have done in the lessons Rectilinear plane figures, Length and area.



(a)



(b)



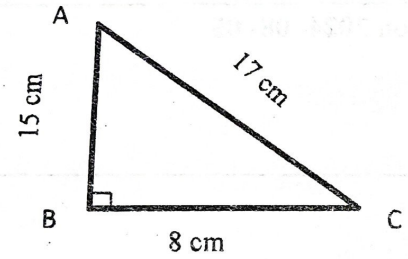
(c)

i. Write suitable names to (a) ,(b),(c) plane figures. (3 marks)

ii. Draw a concave polygon with 5 sides. (2 marks)

iii. What are the conditions need to be satisfied for a polygon to be a regular polygon? (2 marks)

iv. Explain giving reasons, why the rectangle is not a regular polygon. (2 marks)



a) Write the type of triangle ABC based on the lengths of the side. (1 mark)

b) Write the type of triangle ABC based on the magnitudes of the angles. (1 mark)

c) Find the perimeter of triangle ABC. (2 marks)

v. An equilateral triangle is made by using the total length of the wire used to make a square shaped frame of area 144 cm2. Find the length of a side of the equilateral triangle. (3 marks)

2. Price list of a certain fruit selling store is given below.

Item	Quantity	Price
Mango	1 fruit	a
Apple	1 fruit	b
Pineapple	1 fruit	c
Woodapple	1 fruit	d
Grapes	1 Kg	1200

i. Write an algebraic expression for the amount of money needed to buy 3 mangoes and 2 apples. (2 marks)

ii. Piyal bought 1 pinepple 5 woodapples and 250g of grapes. Write an algebraic expression for the amount of money paid. (3 marks)

iii. 5 woodapples, 1 pineapple and 250g of grapes were bought and Rs. 1000 note was given. Write an algebraic expression for the balance. (2 marks)

iv. If Piyal received Rs. 200 as the balance, find the amount of money spent to buy an apple and 5 wood apples. (2 marks)

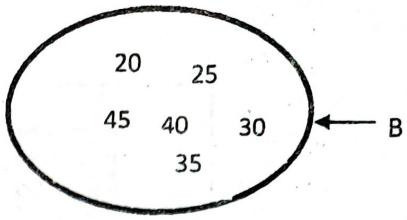
v. If the price of a woodapple d=55, find the price of a pineapple **c**. (2 marks)

3. A= { square numbers from 10 to 75 }

i. Write the set A by writing all the elements belong to A within curly brackets. (3 marks)

ii. Represent the set A by a Venn diagram. (2 marks)

iii. Write the set B in terms of a common property of its elements by which the elements can be clearly identified. (2 marks)



iv. What is the common element of the two sets A and B. (2 marks)

v. Place "✓"mark if the expressions given below clearly define a set, and "✗" if they do not clearly define a set.

a) Honest people ☐ (1mark)

b) Students those who got more than 69 marks for mathematics in the term test. ☐ (1 mark)

4. Using the straight edge and the pair of compasses do the following constructions.

i. Construct a straight line segment AB= 12 cm (1 mark)

ii. Mark the mid point of AB as Q, such that AQ= 6 cm (1 mark)

iii. Mark the point P on AQ and R on QB such that AP= 3 cm and QR= 3 cm (2 marks)

iv. Construct 3 circles taking P, Q, R as centers and AP as the radius. (3 marks)

v. Mark the intersection points of the two circles with centres P and Q as M and N, and complete the quadrilateral PMQN. (4 marks)

5.

a)

$$\frac{15}{7},\ \frac{3}{4},\ 1\frac{6}{7},\ \frac{3}{5},\ \frac{27}{8},\ \frac{2}{10},\ \frac{3}{15},\ 2\frac{2}{7}$$

$$\frac{1}{13},\ 1\frac{3}{10},\ \frac{5}{19},\ \frac{1}{8}$$

Using only the fractions given in the cage, answer the following questions.

i. Write 2 unit fractions. (1 mark)

ii. Write 2 improper fractions. (1 mark)

iii. Write 2 mixed numbers. (1 mark)

iv. Write a pair of equivalent fractions. (2marks)

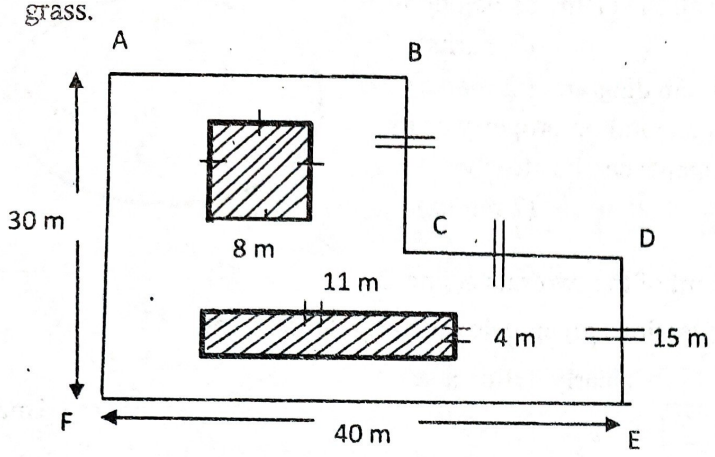
v. Arrange the fractions $1\frac{6}{7}, 2\frac{2}{7}, \frac{15}{7}$ in ascending order. (1 mark)

b)

i. $3\frac{1}{5} - 1\frac{3}{10}$ (2 marks)

ii. $\frac{1}{4} + 2\frac{2}{3} + 1\frac{1}{2}$ (3 marks)

6. On a side of the land ABCDEF, there is a square shaped pond of length of a side 8m and a rectangular shaped pond of length 11m and breadth 4m. The remaining area is covered with grass.



i. Find the perimeter of the land ABCDEF. (3 marks)

ii. Find the area of the whole land ABCDEF. (3 marks)

iii. What is the sum of the area of the ponds? (2marks)

iv. Find the area of the region covered with grass. (3 marks)

7.

i. a)

	L	ml
	13	908
+	7	796

(2 marks)

b).

	L	ml
	37	14
-	21	857

(2 marks)

ii. a) Length of a wire is 2m 87 cm. Find the total length of wire needed to cut 7 such pieces. (3 marks)

b). 38 Kg 643g ÷ 11 (2 marks)

iii. $5x - 7 = 58$ (2 marks)

Solve the equation.

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