Nalanda College - Colombo 10

REVELATION TEST

Grade - 7

Mathematics　　　　Time:- 2 hours

Name -...................................　　Class - ....　　Index No. ....

1. Simplify $2 \times 7 - 5$	2. Find the H.C.F of 24 and 26
3. A={Letters of the word "HOMAGAMA" Represent the set by writing all the elements	4. Simplify (+3) + (-5)
5. Find the digital root of 126	6. Find the perimeter of the rectangle which the length is 5 cm and breads is 2 cm
7. Write the first date of the 20th century	8. Find the value of x^4 when x=2
9. Find the I.C.M of 12 & 15	10. Draw the polygon which has least number of sides

11. Write as a decimal number

$\frac{7}{10}$ = ...

12.
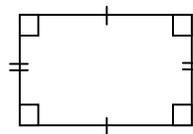
    Is this a regular polygon?

    Write the reason.

13. Write the vertex of the angle which is drawn joining PQ and QR straight line segments

14. Write $2\frac{1}{4}$ as a improper fraction

15. When we observe our surround-dings, we can identify two types of angle. Name them

    (1)

    (2)

16. Write 36 as a product of its prime factors

17. Simplify

	g	mg
	8	35
-	2	48

18. Find the value

    $2\frac{1}{4} + \frac{2}{5}$

19. 135 x 3 = 405

    Then find the value of 1.35 x 3

20. Thisaja walked for three hours at $3\frac{1}{2}$ kilometers per hour. Find the total distance he walked during the three hours as an improper fraction.

2 x 20 = 40 Marks

Part II

Answer for the all questions

First question has 16 marks and other 4 quotations have 11 marks.

1.

$$x - 2 = 8 \qquad\qquad 2y + 3$$

$$\frac{p}{2} - 4 \qquad\qquad 2x + 5 = 25$$

   (i). Write two needs of an algebraic expression.

   (ii). Write two needs of a simple equation.

   (iii). Write the index of the unknown term of a simple equation.

   (iv). Solve. $2x + 5 = 25$

   (v). Solve the equation $x - 2 = 8$ using another method.

   (vi). The height of a building is 5 meters less than ½ of its length. If its length is x meters write the height as an expression of x.

2.
   (i). Draw a circle of radius 4cm.

   (ii). Name the centre as O.

   (iii). Mark a point on the circle as A.

   (iv). Produce AO until it meets the circle again at B.

   (v). Write down the name used to define AB.

   (vi). Measure the length of AB.
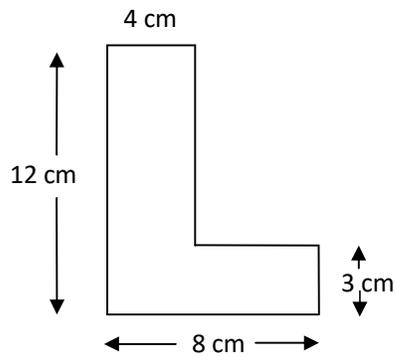
3.

(i).

    (a.) Simplify

	m	cm
	12	70
+	20	45

    (b.) Length of a wire is 6 m and 72 cm. it divides to 6 equal parts. Find the length of a part.

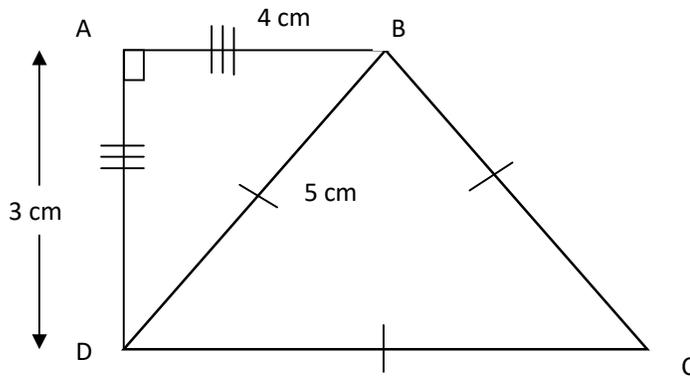   (c.) Find the perimeter of a square shaped stamp which the length of a side is 2.5 cm

(ii). Find the area of a rectangular shaped land the length is 12m and breadth is 8m.

(iii). Find the area of the following figure

4 cm

12 cm

3 cm

8 cm

4.

(i). Write the answers using following diagram.

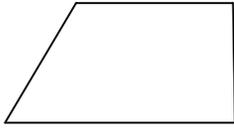A   4 cm   B

3 cm   5 cm

D   C

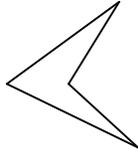   (a.) Name a right angled triangle.

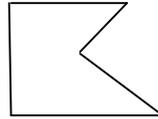   (b.) Name a scalene triangle.

    (c.) Name a regular polygon

(ii). Answer for the following questions using the following polygons. Write the English letter for the answers
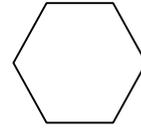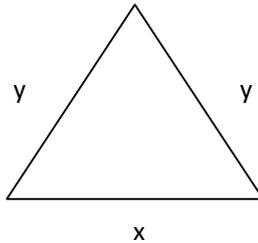

(a.) Name the concave polygons.

(b.) Name the convex polygons.

(iii).

(a.) If the perimeter of the given triangle is **P,** develop a formula for P.

(b.) Find the value of P when x = 10cm and y=30 cm.

5.

(i). The length, breath and height of a cuboids shaped container are 2 m, 1 m, 30cm respectively.

(a.) Find the height of the container in meters

(b.) Find the volume of the container.

(ii). The sixth birthday of a child fell on 2020-09-25. His mass was 22 kg and 800 g on that day.

(a.) When was his birthday?

(b.) What will be his age on 2025-11-01?

(c.) On 2025-11-01 the mass of child will 5 kg and 300 g more than his mass of 6 birth day. Find the mass of the child on 2025-11-04

(d.) Her mother was 25 years 3 months 22 days of old when she was giving the birth to her child. When was mother's birthday?