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இரண்டாம் தவணை மதிப்பீடு – 2017
Second Term Evaluation – 2017

7 ශ්‍රේණිය தரம் 7 Grade 7	ගණිතය கணிதம் Mathematics	පැය දෙකයි இரண்டு மணித்தியாலங்கள் Two Hours

Name/Index No : ....

PART I

- *Answer **all questions** on this paper itself.*
- *Each question gets 2 marks.*

1. Price of a pen is Rs. 12. Find the price of 9 such pens.

2. How many axis of symmetries are there for the letter S in English alphabet.

3. A = {Square numbers between 10 and 50} denote the set A in Venn diagram.

4. Simplify

   $7 + 8 \times 2$

5. Write the prime factors of 18.

6. Find the value of $5x^3y$ when $x = 2$ and y = 3.

7. Write the leap years between year 2098 and 2109.

8. Find the value $(+8) + (-12.5)$

9. Write two examples for dynamic angles.

10. Select and write the greater fraction.

    $\frac{4}{7}, \frac{2}{5}$

11. Write $4\frac{3}{8}$ as a decimal number.

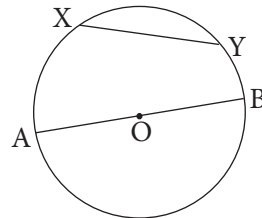12. What is the co-efficient of the algebraic term in the expression $5 - \frac{2x}{3}$

13. Describe the expression $\frac{p}{5} - 4$, in words.

14. How many 50g packets can be made out of 5.75kg of tea.

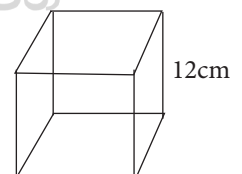15. Centre of a given circle is O.

    AB is a ....
    XY is a ....

16. L.C.M. and H.C.F of two whole numbers are 36 and 6 respectively. If one number is 12, find the other number.
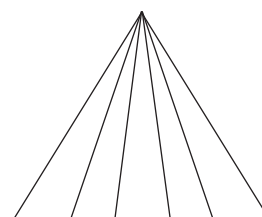
17. From 28m of wire Rohan used 13m 6cm of it. Find the length of the remaining wire.

18. Calculate the volume of a cube with 12cm side shown in the figure.

    12cm

19. A moter cycle requires $2l$ $16ml$ fuel to travel a distance of 9km. Find how much fuel it requires to travel a distance of 1km.

20. How many triangles are there in the figure?

PART II

- *Write the answers for the **question number 1** and **four others** on a separate paper and attach it to the Part I.*

- *Question No 1 carries 16 marks and, all the others get 11 marks each.*

1. Recall the lesson about equations and formulae

    a) Write a difference between a simple equation and formulae.

    b)

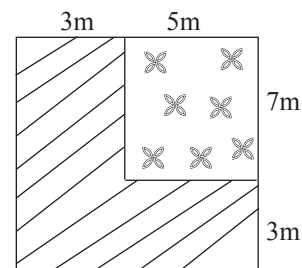 | |
    |---|
    | $4x - 3$ |
    | $\quad\quad 3x + y = 7$ |
    | $A = lb$ |
    | $\quad\quad 5x + 3 = 8$ |

    Select and write an example from the given box.

    i) an expression

    ii) Simple equation

    iii) Formulae

    c) i) Construct an equation to represent the information given below.

    When 18 is subtracted from seven times of a certain number x, the value obtained is 24.

    ii) Solve the above equation and find the value of the number x.

    d) i) The length and breadth of a rectangle are l and b respectively. Construct a formulae for its perimeter "P"

    ii) The length of a rectangle is 5 times of its breath. If the perimeter of it is 72cm, find its length and breadth separately.

2. a) The perimeter of an equilateral triangle 16m 2cm. Find its length of a side.

    b) The given figure shows a rectangular garden. In a side of it there is a rectangular flower bed and grass land on it's remainder.

    i) Find the area of the garden

    ii) Find the area of the flower bed.

    iii) Find the area of the grass land.

    iv) Find the perimeter of the grass land.

3. a) i) Draw a straight line segment AB = 6cm.

   ii) Mark the midpoint of AB as O. Draw a circle with centre O and AB as diameter.

   iii) Draw two parallel lines CD and FE 2cm away from AB, where C, D, F, E are the points on the circle.

   iv) Join CDFE what is the special name to be given to CDFE.

4. The length, breadth and height of a cuboid shaped vessal are 12cm, 10cm, 300mm respectively.

   i) Find the height in centimeters.

   ii) Find the volume of the vessal in cubic centimeters.

   There was 2250ml of water in the vessal 1l 50ml of fruit juice is poured into the vessal to prepare fruit drink.

   iii) Find the Amount of fruit drink in the vessal.

   iv) Above fruit drink is poured in equal amount into 33 tumblers. How many ml of drink will one tumbler contain.

5. a) Simplify the following.

   i) $\frac{3}{5} + \frac{1}{3}$

   ii) $3\frac{4}{9} - 1\frac{1}{18}$

   b) Fill in the blanks using < or > appropriately.

   i) $\frac{2}{7}$ .... $\frac{1}{3}$

   c) Mohan spends $\frac{3}{5}$ of his salary for food and $\frac{3}{10}$ of his salary for transport. Find the total fraction he spent for food and transport.
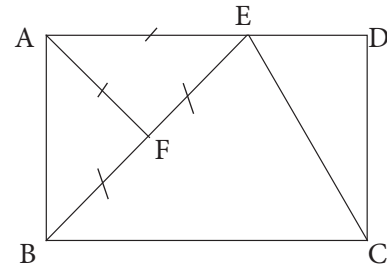
6. a) Fill in the blanks.

Lengths of the sides of triangles	Types of Triangles based on sides
10cm, 5cm, 8cm	....
8cm, 8cm, 8cm	....
4cm, 4cm, 3cm	....

   b) If one angle is 150^0 that is .... angled triangle.

c) ABCD is a rectangle. F is the midpoint of BE. Name the following using data in the figure.

   i)   Right angled triangle

   ii) Isosceles triangle

   iii) Trapizum

   iv) Concave pentagon.

7. a) i)   Write 24 as a product of two factors in all possible ways.

        ii) Write all the factors of 24.

        iii) Write the prime factor multiplier of 24.

        iv) Write the prime factors of 24.

    b) Find the L.C.M. of 18 and 24.

    c) Find the H.C.F. of 18 and 24.