Final Unit (18 March 2016)
Class – VI
Paper- Mathematics
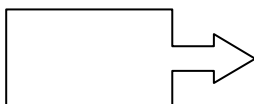
Time: 3hrs.   M.M. 90

Section-A

Note:
1) Q1 - Q10 each will carry 2 marks
2) Q11 – Q20 each will carry 3 marks
3) Q21 – Q30 each will carry 4 marks

SECTION - A

1. a) Simplify $\dfrac{37}{15} - \dfrac{21}{15}$

   b) Convert $\dfrac{67}{9}$ into mixed fraction.

2. Find the area of square   Side = 2.5m

3. Fill in the blanks

   a) $\angle DEF$ is a ……………….. angle.

   b) $\angle GOH$ is a ……………….. angle.

4. Use protractor and draw the angle 65^0.

5. a) Write the number in expanded form   591.723

   b) Convert $\dfrac{13}{20}$ into decimal

6. Find the equivalent ratio of 8 : 9

7. True/False:

   a) Diameter is five times of a radius.

   b) A decagon is a polygon with eight sides.

8. Fill in the blanks:

   a) The sum of three angles of triangle is equal to ……………

   b) A quadrilateral in which all sides are equal and every angle is a right angle is called …………..

9. a) Identify each of following as symmetrical or asymmetrical:

   i) P   ii) D

   b) Draw lines of symmetry

10. Add the following: $9.2 + 19.57 + 190.879$

11. If the perimeter of equilateral triangle is 600m. Find sides.

12. Draw a circle with radius 5cm and centre at point O. Mark three points:

    a) on the circle   b) inside the circle   c) outside the circle

13. The ratio of sides of a parallelogram is 4:5 and its perimeter is 36cm. Find the measure of the sides?

14. Draw the lines of symmetry for the following:

    a) Square   b) Equilateral triangle.

15. In quadrilateral PQRS, answer the following questions:

    a) Name the opposite sides

    b) Name the adjacent angles

    c) Interior and exterior

    d) Name the diagonals

16. Find the mean, if the following are in proportion 3, 12.

17. Savita purchased 8.25m cloth for her salwar, 3.6cm closth for kameez and 3m cloth for dupatta. Find the total length of cloth purchased by Savita?

18. Sana eats $\dfrac{2}{3}$ of a Pizza, Bana eats $\dfrac{4}{5}$ of the Pizza and Sarin eats $\dfrac{6}{7}$ of the Pizza. Who eats more?

19. a) What fraction is 800m of 1 kilometre?

    b) Write four equivalent decimals of 3.8

20. A train covers 1650km in 25 hrs. How much distance the train will cover in 10 hrs?

21. The length of rectangle is 36cm and breadth is 25cm. Find the side of a square which has a same area of above described rectangle.

22. Construct an angle 45^0 using ruler and compass. Bisect the angle.

23. If ABCD is a rhombus. Answer the following questions:

    a) Side AB = _____

    b) AO = _____ ; OD = _____

    c) Is AB parallel to CD? Is AD parallel to BC?

    d) What is measure of $\angle AOB, \angle AOD, \angle COD, \angle BOC$?

24. Ram earns Rs. 60,000 in a month. He saves Rs. 20,000 per month. Find the ratio of the following:

    a) Saving and earning

    b) Saving and expense

    c) Expense and earning

25. A milkman has 60 litre milk. He gives 25.5 litre to Ram, 12.75 litre to Shyam and gives 5 litre to Madhu. Find the following:

    a) How much milk is distributed by milkman?

    b) How much milk is still left with him?

26. A jar of milk has 20 litres of milk. $15\frac{4}{5}$ litre was taken away from jar and again $7\frac{3}{4}$ liters was added. How much milk is still left in jar?

27. The four angles of a quadrilateral are in ratio of 2: 3: 6: 7. Find the measure of angles.

28. A bathroom is 200cm wide and 250cm long. The bathroom has to be covered by tiles having length 25cm and breadth 20cm. How many tiles will be required to cover the bathroom?

29. a) Draw a line segment AB = 10.30cm. Construct its perpendicular bisector.

    b) How many median are there in a triangle? Show by diagram the medians and centroid of a triangle.

30. In a class test of Maths, Ravi got 6 marks out of 10, in another class test of Maths Ravi got 13 marks out of 25 and in final test of Maths Ravi got 75 marks out of 100. In which exam of Maths, Ravi performed the best?