

MATHEMATICS  
SAMPLE TEST PAPER (SEMSTER II)  
CLASS VIII

Class:8  
Time :2hrs

Max Mks:45  
No of pages: 2

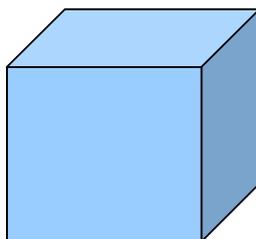
**General Instructions:**

- ⤴ All questions are compulsory.
- ⤴ Questions 1 to 5 carry 1mark each.
- ⤴ Questions 6 to 12 carry 2 mark each.
- ⤴ Questions 13 to 14 carry 3 mark each.
- ⤴ Questions 15 to 19 carry 4 mark each.

1. Two adjacent angle of a parallelogram are  $(2x+25)^\circ$  and  $(3x-5)^\circ$  then the value of x is
2. Find the number of diagonals in polygon of 10 sides



3. A Triangular pyramid is also called as \_\_\_\_\_
4. 3 men or 5 women can do a work in 12 days. How long will 6 men and 5 women take to do it?
5. The diagonal of cube is  $9\sqrt{3}$  cm long its total surface area is ?
6. The angles of the quadrilateral are in the ratio 4:5:8 find the measure of these angle
7. construct a square. Each of whose side measures 6 cm.
8. Verify Euler formula for the given figure



9. A beam of wood is 8m long and 42cm thick is made of  $1.25\text{m}^3$  of wood. What is the width of beam
10. A solid cube of metal each of whose sides measures 2.3cm is melted to form a cylindrical wire

of radius 2 mm. What will be the length of wire so obtained.

11. The House rent of 15 houses for a month are given below

1500,2000,1500,1800,1200,2000,1800,1650,1700,1800,2000,1750,1600,1500,1800

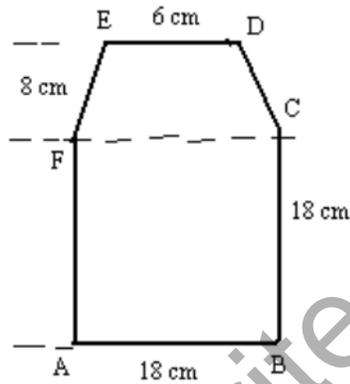
Arrange the data in increasing order and form the frequency table using equal class intervals, starting from 1500

12. Two adjacent angles of parallelogram are in the ratio 5:6 find the measure of each angles

13. The length of a rectangle is 8 c and each of its diagonals measure 12 cm.. Find its breadth.

14. Construct a quadrilateral PQRS with  $PQ = 7\text{cm}$ ,  $QR = 4.8\text{ cm}$ ,  $RS = 3.5\text{ cm}$  and  $\angle Q = 45^\circ$   
 $\angle R = 90^\circ$

15. Find the area of enclosed by the given figure ABCDEF as per dimensions given below



16. Various modes of transport used by 1500 students of a school are given below:

Draw a bar graph to represent the above data.

School bus	Private bus	Ricksha	Bicycle	By foot
600	300	300	100	200

17. A die is thrown. What is the probability of getting a ) a number greater than 2 b) a even number

18. The following data shows the agricultural production for certain year in India

FOOD GRAINS	RICE	WHEAT	COARSE CEREALS	PULSES
PRODUCTION IN TONNES	57	75	45	20

19. Draw the graph of the function  $y = 2x$