The Lawrence School, SANAWAR
Mathematics Sample Question Paper
for
Entrance Examination for Class – VII

Time: 01 Hour   **Max. Marks: 100**

SECTION – A (1- Mark each)

1. The smallest odd composite number is …………………....

2. A polygon with least number of sides is called…….…………….

3. Two straight lines in a plane are either …………………….or ………………………

4. Write the next number of the pattern: 5, 8, 13, 20, ………...

5. Evaluate: $\left|\,|-23| - |25|\,\right|$ = …………………………

6. The sum of the largest negative integer and the smallest positive integer is …………

7. Area and Perimeter of a square are equal if its side is ……..………..…...

8. Algebraic expression for : '7' more than thrice of 'x' is ……………..……………..

9. The value of 'x' such that: x : 15 :: 20 : 60 is ………………….

10. There are ………..……….lines of symmetry for a circle.

SECTION – B (5 - Marks each)

11. Find the largest number which will divide all the three numbers 144, 180 &192 exactly.

12. Find angle between hour hand and minute hand of a clock when it is showing 8:00 pm.

13. Evaluate : $(-58 + 18) + \{(-3) + (-60) + 20\} - (-15) + 70$

14. Simplify: $2\frac{1}{2} + 4\frac{1}{3} - 3\frac{1}{4}$

15. i) Find 'y' such that : $3y + 16 = -5.$

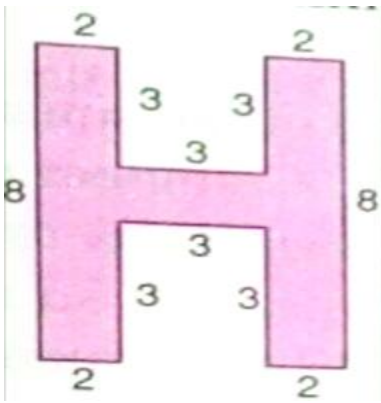   **ii) Find value of :** $2a - 3b$ **when** $a = 5$ **and** $b = 3.$

16. The number of boys and girls in a school are in a ratio of 4 : 3. If the total strength of the school is 1120 then find how much more is number of boys than the number of girls in the school.

17. A truck requires 108 liters of diesel to cover a distance of 594 km. How much diesel will be required to cover a distance of 1650 km ?

18. Arrange the fractions in descending order : $\frac{1}{4}, \frac{1}{6}, \frac{3}{8}, \frac{5}{12}$

19. Using compass and scale only, draw an angle measuring 45^0.

20. Find area of the shaded region in the given diagram:
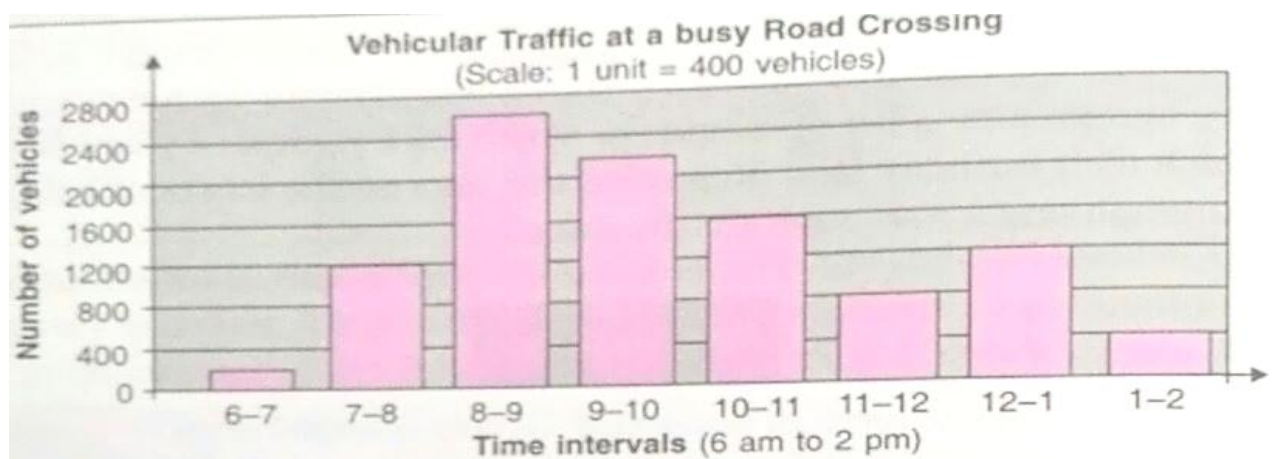

SECTION – C (10 - Marks each)

21. To complete a project work Pinki spent $\frac{5}{6}$ hours on first day, $\frac{3}{4}$ hours on second day and $\frac{1}{2}$ hours on third day. Find the total time spent by Pinki on the project. Pinki's friend Honey spent $2\frac{1}{3}$ hours on her project, find who took more time and how much more to complete the project ?

22. Find the least number which when divided by 6, 15 & 18 leaves remainder 4 in each case.

23. Mr. John went to the market with Rs. 1000 note. He ate a pizza costing Rs. 180.50 and purchased a book for Rs. 283.25. While coming back home he hired a taxi for which he paid Rs. 198.25. Find the total amount spent by Mr. John and the spare amount of money left with him.

24. Study the Bar graph carefully and answer the questions given below:

Vehicular Traffic at a busy Road Crossing
(Scale: 1 unit = 400 vehicles)

i) What is total number of vehicles passing the crossing from 6 am to 12 pm ?
ii) Maximum number of vehicles are passing through the crossing during which time slot ?
iii) Minimum traffic occurs during which time slot ?
iv) What is the total traffic during two peak hours of morning rush ?