SUMMER VACATION HOLIDAY HOMEWORK (2020-21)

CLASS- 8

1. Find the multiplicative inverse of: (i) $-\frac{3}{4}$ (ii) $\frac{11}{4}$

2. The product of two number is -8. If one of them is -12, find the other.

3. The sum of two rational numbers is -4. If one of them is $\frac{-11}{5}$, find the number.

4. Evaluate: $\left(\frac{5}{9}\right)^{-2} \times \left(\frac{3}{5}\right)^{-3} \times \left(\frac{3}{5}\right)^{0}$

5. Evaluate: $[(5^{-1} \times 3^{-1})^{-1} \div 6^{-1}]$

6. Find the value of: $(2^{-1} \times 3^{-1}) \div 2^{-1}$

7. Evaluate: $\sqrt{11236}$

8. Evaluate $\sqrt{3}$ up to two places of decimals.

9. Find the least number which must be subtracted from 7581 to obtain a perfect square. Find this perfect square and its square root.

10. Evaluate: (i) $(15)^3$ (ii) $(24)^3$ (iii) $(60)^3$

11. Find the smallest number by which 1323 must be multiplied so that the product is a perfect cube.

12. Evaluate: $\sqrt[3]{729}$

13. Evaluate: $\sqrt[3]{3375}$

14. The sum of the digit of a two-digit number is 15. The number obtained by interchanging its digit exceeds the given number by 9. Find the original number.

15. What number should be added to $\frac{7}{-8}$ to get $\frac{4}{9}$?

16. Find two rational number between -3 and -2.

17. Find the area of rectangular park which is $36\frac{3}{5}$ m long and $16\frac{2}{3}$m broad.

18. If $5^{2x+1} \div 25 = 125$, find the value of x.

19. Write each of the following numbers in usual form:

(i) 4.61×10^5 (ii) 2.514×10^7

20. Write a Pythagorean triplet whose smallest member is

(i) 6   (ii) 14   (iii) 16   (iv) 20

21. Find a rational number between $\frac{-1}{3}$ and $\frac{1}{2}$

22. Divide the sum of $\frac{13}{5}$ and $\frac{-12}{7}$ by the product of $\frac{-31}{7}$ and $\frac{1}{-2}$.

23. Evaluate: $\left(\frac{-1}{4}\right)^{-3} \times \left(\frac{-1}{4}\right)^{-2}$

24. Evaluate: $\sqrt{42.25}$

25. Evaluate: $\sqrt[3]{\frac{729}{1000}}$