Cambridge INTERNATIONAL SCHOOL
A LWES MANAGED SCHOOL
PALAHI ROAD, PHAGWARA

CAMBRIDGE International Examinations
Cambridge International School

HOLIDAYS HOMEWORK

CLASS-VIII

SUBJECT-MATHS

1. For what value of x , the following statement is true?
$$1\frac{1}{6} \times 1\frac{2}{9} = \frac{11}{9} \times x$$
2. Sudha had Rs. 100 with her. She bought $3\frac{1}{2}$ liters of milk at Rs. $22\frac{1}{2}$ per liter. How much money is left with her?
3. What should be subtracted from $(\frac{3}{4} - \frac{2}{3})$ to get $\frac{-1}{6}$?
4. Simplify:
$(\frac{13}{9} \times \frac{-15}{2}) + (\frac{7}{3} \times \frac{8}{5}) + (\frac{3}{5} \times \frac{1}{2})$
5. Verify the property:
$x \times (y + z) = x \times y + x \times z$ by taking
   a) x= $\frac{-3}{7}$, y=$\frac{12}{13}$, z=$\frac{-5}{6}$
   b) x=$\frac{-3}{4}$, y=$\frac{-5}{2}$, z=$\frac{7}{6}$
6. Divide the sum of $\frac{-13}{5}$ & $\frac{12}{7}$ by the product of $\frac{-31}{7}$ & $\frac{-1}{2}$
7. By what number should $\frac{-3}{4}$ be multiplied in order to produce $\frac{2}{3}$?
8. Divide the sum of $\frac{65}{12}$ & $\frac{12}{7}$ by their difference.
9. Find 6 rational numbers between $\frac{3}{5}$ & $\frac{3}{4}$
10. Nine times the reciprocal of a rational number is equal to 6 times the reciprocal of 17. Find the rational number.
11. Simplify:
   a) $(4^4 \times 5^{-2})(4^2 \div 5^2)$
   b) $5x^2 \div 15(xy)^2$
12. Find x so that $\left[\left(\frac{1}{3}\right)^{-2} \times \left(\frac{1}{3}\right)^{-5}\right] = \left(\frac{1}{3}\right)^{2x+1}$
13. By what number should $\left(\frac{5}{7}\right)^{-5}$ be multiplied so that the product is 1?
14. By what number should $(-15)^{-1}$ be divided so that the quotient be equal to $(-5)^{-1}$?
15. If the diameter of the sun and the earth are 1.4× 10^9 meters and 1.275× 10^7 meters respectively. Compare the two.
16. Find the least number which must be added to 306452 to make it a perfect square.

17. **Find the perimeter of a square field whose area is 49 km.**
18. **Find the greatest number of four digits which is a perfect square.**
19. **The area of a square playground is 256.6404 square meters. Find the length of one side of play ground.**
20. **Find the square root of following by long division method up to 3 digits**
    a) **306452**
    b) **73.582**
21. **A survey of 400 families of a town was conducted to find out how many children are there in a family. The result of the survey is given below:**

Number of families	**50**	**68**	**182**	**74**	**26**
Number of children	**0**	**1**	**2**	**3**	**4**

Find the probability that the family has

a) **More than 2 children**
b) **Less than 4 children**

22. **The lower limit of a class interval is 25 and its class mark is 30. What should be its upper limit?**

Project

Make a Maths Journal which will contain following Topics:

1. **Life History of any two Indian mathematicians.**
2. **Jokes on Maths (5-7)**
3. **Write Articles on following topics:**
    a. **Maths in daily life**
    b. **Latest discoveries in mathematics**
    c. **Why you love mathematics?**
    d. **Maths in Nature**
4. **Write a poem on Maths.**

- **Use your skill of drawing and creativity to make your journal more beautiful and attractive.**