

HOLY CROSS SCHOOL , MOHAR PARA

1ST PERIODICAL TEST , MATHEMATICS

CLASS -8 ,FULL MARKS – 40

A. SOLVE THE FOLLOWING $1 \times 10 = 10$

1. Find the additive inverse of a. 23 b. -18
2. Find the reciprocal of a.11 b.-1
3. Find the value of $(-1)^{-1}$
4. The product of a rational number and its reciprocal _____
5. -3 lies to the left of 0 on the number line . (T/F)
6. Write in standard form : 57.36
7. Write in usual form : 6.912×10^8
8. The height of mount Everest is 8848 m .Express it in standard form .
9. Write in standard form : 0.00000083
10. Evaluate : 4^{-3}

B . SOLVE THE FOLLOWING $2 \times 3 = 6$

1. Add the following numbers : $-\frac{3}{5}$ and $\frac{3}{4}$.
2. Subtract : $-\frac{5}{6}$ from $\frac{1}{3}$
3. Mass of earth is (5.97×10^{24}) kg and mass of moon is (7.35×10^{22}) kg .What is the total mass of the two ?

C. SOLVE THE FOLLOWING $3 \times 4 = 12$

- 1.The product of two rational number -9 . If one of the numbers is -12. Find the other.
2. Find three rational numbers between $\frac{2}{3} + \frac{3}{4}$
3. From a rope 11m long ,two pieces of length $2\frac{3}{5}m$ and $3\frac{3}{10}m$ are cut off .what is the length of the remaining rope.
4. Evaluate : $\{ (\frac{-2}{3})^2 \}^{-2}$

D. SOLVE THE FOLLOWING $4 \times 3 = 12$

1. Evaluate : $\{ (\frac{1}{3})^{-3} - (\frac{1}{2})^{-3} \} \div (\frac{1}{4})^{-3}$
2. Find the value of x for which $(\frac{5}{3})^{-4} \times (\frac{5}{3})^{-5} = (\frac{5}{3})^{3x}$
3. Divide the sum of $\frac{13}{5}$ and $\frac{12}{7}$ by the product of $\frac{-31}{7}$ and $\frac{-1}{2}$.