Rational Numbers: Worksheet -9

1. Which of the following is the equivalent fraction of 3/4 with numerator 18 ? [ ]

   a) 18/12 b) 18/20 c) 18/4 d) 18/24

2. Which of the following is the perimeter of the rectangle of length 3/4 m & breadth 1/4 m? [ ]

   a) 2 m b) 1 m c) 3/8m d) 4m

3. In a class of 40 students, 3/5 of the total number of students are girls. How many students of the class are boys? [ ]

   a) 24 b) 20 c) 16 d) 15

4. $\left(1-\frac{1}{2}\right)\left(1-\frac{1}{3}\right)\left(1-\frac{1}{4}\right).....\left(1-\frac{1}{n}\right)=$ [ ]

   a] n^2 b] $\frac{1}{n}$ c] $\frac{1}{n^3}$ d] None of these

5. If $2 = x+\frac{1}{1+\frac{1}{3+\frac{1}{4}}}$, then the value of x is [ ]

   a] $\frac{12}{17}$ b] $\frac{21}{17}$ c] $\frac{29}{17}$ d] None

6. The value of $\frac{1}{3+\frac{1}{2-\frac{\left(\frac{1}{7}\right)}{9}}}+\frac{17}{22}=$ [ ]

   a] 0 b] 1 c] 2 d] 3

7. The sum of two rational numbers is -5. If one of the numbers is $\frac{11}{6}$ find the other [ ]

   a) $\frac{-19}{6}$ b) $\frac{-17}{6}$ c) $\frac{-13}{6}$ d) none

8. How many $\frac{1}{8}$'s are there in $37\frac{1}{2}$? [ ]

a) 300 b) 400 c) 500 d) cannot be determined

9. Ascending order of $\frac{3}{4}, \frac{1}{3}, \frac{5}{6}$ is _____ [ ]

a) $\frac{3}{4} < \frac{5}{6} < \frac{1}{3}$ b) $\frac{1}{3} < \frac{5}{6} < \frac{3}{4}$ c) $\frac{1}{3} < \frac{3}{4} < \frac{5}{6}$ d) $\frac{5}{6} < \frac{3}{4} < \frac{1}{3}$

10. Defined A and B as A@ B = $\frac{A}{B}$ + A.B then 20 @ (4 @ 2) [ ]

a) 200 b) 201 c) 202 d) 205 e) None

11. The sum of a rational number and an irrational number is: [ ]

a) Rational number b) Irrational number
c) Neither rational nor irrational d) none