O. P. JINDAL SCHOOL, RAIGARH (CG) 496 001

Phone: 07762-227042, 227293, 227001 (Extn. 49801, 49802, 49804, 49806); Fax: 07762-262613; website: www.opjsrgh.in; e-mail:opjsraigarh@jspl.com

WORK SHEET
SUBJECT- Maths
Chapter 1- Rational Numbers

CLASS- VIII **Date – 18.6.14**

Q1. Fill in the blanks:

a) Rational numbers are numbers of the form_____ where p,q are integers and q≠0.
b) Rational numbers are not closed under_____.
c) _____ is called the additive identity of rational numbers.
d) Zero has _____ reciprocal.
e) The numbers_____ and _____ are their own reciprocals.
f) _____ is the multiplicative inverse of $3\frac{1}{3}$.
g) The rational number that is equal to its negative is _____.
h) There are _____ rational numbers between any two given rational numbers.
i) Nine times the reciprocal of a number is 3. The number is _____.
j) _____ + $\frac{3}{7}$ = -1.

Q2. Write the additive inverse of

a) $\frac{2}{-9}$ b) $\frac{-6}{-8}$

Q3. Write the multiplicative inverse of

a) -1 b) $\frac{-13}{19}$

Q4. Verify that –(-a)=a is true for a = $\frac{-19}{21}$

Q5. Verify the property: ax(b+ c) = axb + axc by taking a = $\frac{-5}{2}$, b = -2, c = $\frac{11}{3}$

Q6. Find five rational numbers between $\frac{-1}{2}$ and 2.

Q7. Arrange in ascending order $\frac{-3}{4}$, $\frac{5}{-12}$, $\frac{-9}{16}$, $\frac{7}{-24}$

Q8. Represent $\frac{-5}{6}$, $\frac{7}{4}$, $\frac{9}{-11}$ on the number line.

Q9. Find $\frac{3}{7}$ + ($\frac{-6}{11}$) + ($\frac{-8}{21}$) + ($\frac{5}{22}$)

Q10. Using appropriate properties, find

i) $\frac{2}{5} \times \frac{-3}{7} - \frac{1}{14} - \frac{3}{7} \times \frac{3}{5}$

ii) $\frac{1}{2} - \frac{1}{6} \times \frac{-2}{3} + \frac{7}{9} \times \frac{-1}{6}$

****