

National Institute of Open Schooling (NIOS)
Secondary Course
Lesson – 01: Number System
Worksheet-01

1. How many rational numbers are possible between any two rational numbers? Find out any two rational numbers between $\frac{7}{9}$ and $\frac{8}{9}$.
2. Write any five equivalent forms of the rational numbers $\frac{3}{5}$ and $\frac{5}{7}$. Observe and identify the commonness among the equivalent forms of a rational number.
3. Draw a horizontal number line and locate any two irrational numbers on the number line. Write your observations
4. Write the lowest form of the rational numbers $\frac{48}{192}$ and $\frac{75}{625}$. Write your observations by comparing any rational numbers with its lowest form.
5. Draw a number line and represent the rational numbers $\frac{2}{4}$ and $\frac{5}{3}$ on the number line. Write your observations
6. Compare the following rational numbers by changing them to equivalent forms:
 - i. $\frac{2}{3}$ and $\frac{3}{5}$
 - ii. $\frac{5}{11}$ and $\frac{3}{7}$
7. A number when multiplied by $\frac{3}{10}$ gives $\frac{15}{25}$. Find the number.
8. Represent the following decimals in the rational form.
 - i. 0.33333.....
 - ii. 0.625
 - iii. 3.75
 - iv. 14.44

9. Find any three rational numbers between the following numbers.
- i. 2.7 and 3.5
 - ii. 5.50 and 7.25
10. Express the approximate value of the following by rounding it off to two decimals.
- i. 5.728532
 - ii. 0.888888
 - iii. 6.323575