



PRACTICE WORKSHEET

Subject: Mathematics

Class: CBSE 9th

Chapter: Number Systems

Worksheet: M-1

1. Represent $-9/5$ on the number line.
2. Represent $\sqrt{3}$ on a number line
3. Represent $\sqrt{5}$ on a number line
4. Represent $\sqrt{2.5}$ on a number line
5. Represent $3.86666\dots$ on a number line upto 3 decimal places using successive magnification
6. Rationalise: $\frac{13}{\sqrt{39}}$
7. Rationalise: $\frac{13}{\sqrt{39}}$
8. Rationalise: $\frac{1}{4+\sqrt{10}}$
9. Rationalise: $\frac{1}{2\sqrt{2}-\sqrt{3}}$
10. Express each of the following as a rational number (p/q form).
 - (i) $4.\overline{5235}$
 - (ii) $-2.\overline{3}$
11. Simplify and evaluate the following:
 - a. $(2 + \sqrt{3}) \times (\sqrt{2} - \sqrt{3})$
 - b. $(1 - \sqrt{5})^2$
 - c. $(1 + \sqrt{3}) \times (1 - \sqrt{3})$
 - d. $(1 - \sqrt{3})^2$
12. Without actual division, find which of the following fractions are
 - a) terminating decimals, b) Non-terminating, recurring decimals:
 - (i) $7/16$
 - (ii) $21/80$
 - (iii) $136/250$
 - (iv) $5/6$
 - (v) $54/60$
 - (vi) $48/55$
 - (iii) $44/63$
 - (iv) $115/640$