

G. N. National Public School, Garakmath, G.K.P.
Class - IX MATHS CHAPTER-1 Number Systems
Assignment (Revision) Part - 1

Q-1

Simplify $\left[\{ (256)^{-\frac{1}{2}} \}^{-\frac{1}{4}} \right]^2$

Q-2 Evaluate $\frac{2^n + 2^{n-1}}{2^{n+1} - 2^n}$

Q-3 If $10^x = 64$, find the value of $10^{\left(\frac{x}{2} + 1\right)}$

Q-4 If $\sqrt{10} = 3.162$, find the value of $\frac{1}{\sqrt{10}}$

Q-5 Simplify $\left(\frac{3125}{243} \right)^{\frac{4}{5}}$

Q-6 Simplify $\sqrt[4]{81x^8y^4z^{16}}$

Q-7 $\left(\frac{2}{5} \right)^{2x-2} = \frac{32}{3125}$, find the value of x .

Q-8 Give an example of a number x such that x^2 is an irrational number and x^3 is a rational number.

CH-1 Number System Assignment Part-2

Q-9 π is an irrational number but the value of π , $\frac{22}{7}$ is a rational number, why?

Q-10 Find the length of period of $\frac{1}{7}$.

Q-11 If $x = 2 - \sqrt{3}$ then find the value of $x^2 + \frac{1}{x^2}$.

Q-12 Find the simplest rationalisation factor of $\sqrt[3]{500}$

Q-13 Find the value of

$$\sqrt[3]{2} \times \sqrt[4]{2} \times \sqrt[12]{32}$$

Q-14 ~~Find the~~ Find the value of

$$\sqrt[4]{\sqrt[3]{4096}}$$