## DELHI PUBLIC SCHOOL, JAMMU <br> SESSION 2024-25 <br> Assignment -1

## Class: VIII

Topic: Rational Numbers, Exponents and Powers
Subject: Maths
Read carefully and answer the following questions.
Q1: Find which is not a rational number.
(a) 0.6
(b) -3
(c) 0
(d) $\frac{10}{0}$

Q2: The sum of two numbers is $\frac{-5}{3}$. If one of the numbers is -4 , what is the other number?
(a) $\frac{-7}{3}$.
(b) $\frac{5}{3}$
(c) $\frac{7}{3}$
(d) $\frac{-17}{3}$
(a) $(x \times y)^{0}$
(b) $(x \times y)^{-3}$
(c) $(x \times y)^{-6}$
(d) $(x \times y)^{1}$

Q4: Find three rational numbers between $\frac{-1}{3}$ and $\frac{1}{2}$.
Q5: Simplify and express in exponential form: $\left\{\left(\frac{1}{3}\right)^{-2}-\left(\frac{1}{2}\right)^{-3}\right\} \div\left(\frac{1}{4}\right)^{-2}$
Q6: Find using distributivity: $\left\{\frac{9}{16} \times \frac{4}{12}\right\}+\left\{\frac{9}{16} \times \frac{-3}{9}\right\}$
Q7: Simplify: $\quad\left(\frac{7}{2} \times \frac{5}{3}\right)+\left(\frac{1}{6} \times \frac{3}{2}\right)-\left(\frac{12}{8} \times \frac{4}{3}\right)$

Q8: By what number should we divide $\frac{-63}{15}$ to get -3 ?
Q9: Verify: $x \times(y+z)=(x \times y)+(x \times z)$ if $x=\frac{3}{7}, y=\frac{5}{6}, z=\frac{-1}{6}$

