# OPTIMUM 

INTERNATIONAL SCHOOL

## CLASS - VII

## MATHEMATICS

## CHAPTER 4 - RATIONAL NUMBERS

$\star$ Watch the online videos of "Rational Numbers - Lecture 5 \& 6 " from Optimum Online E-Learning Platform and try to comprehend the concepts of Rational numbers. After that try to solve the questions given in your assignment.
$\star$ Lecture No.. 05
$\star$ Lecture No. 06

1. In each of the following, find an equivalent form of the rational number having a common denominator:
i. $\quad(3 / 4)$ and $(5 / 12)$
ii. $\quad(2 / 3),(7 / 6)$ and (11/12)
iii. (5/7), (3/8), (9/14) and (20/21)
2. Determine whether the following rational numbers are in the lowest form or not:
i. $(65 / 84)$
ii. (-15/32)
iii. (24/128)
iv. (-56/-32)
3. Express each of the following rational numbers to the lowest form:
i. $(4 / 22)$
ii. $(-36 / 180)$
iii. (132/-428)
iv. (-32/-56)
4. Which of the following rational numbers are equal?
i. (-9/12) and (8/-12)
ii. (-16/20) and (20/-25)
iii. (-7/21) and (3/-9)
iv. $(-8 /-14)$ and (13/21)
5. In each of the following pairs represent a pair of equivalent rational numbers, find the values of $x$.
i. $(2 / 3)$ and $(5 / x)$
ii. (-3/7) and (x/4)
iii. (3/5) and ( $x /-25$ )
iv. (13/6) and (-65/x)
6. In each of the following, fill in the blanks so as to make the statement true:
i. A number which can be expressed in the form $p / q$, where $p$ and $q$ are integers and $q$ is not equal to zero, is called a $\qquad$
ii. If the integers $p$ and $q$ have no common divisor other than 1 and $q$ is positive, then the rational number ( $p / q$ ) is said to be in the ....
iii. Two rational numbers are said to be equal, if they have the same .... form
iv. If $m$ is a common divisor of $a$ and $b$, then $(a / b)=(a \div m) / \ldots$.
v. If $\mathbf{p}$ and $\mathbf{q}$ are positive Integers, then $p / q$ is a $\qquad$ rational number and $(p /-q)$ is a ...... rational number.
vi. The standard form of -1 is ...
vii. If ( $p / q$ ) is a rational number, then $q$ cannot be $\qquad$
viii. Two rational numbers with different numerators are equal, if their numerators are in the same $\qquad$ as their denominators.
7. In each of the following state if the statement is true $(T)$ or false $(F)$ :
i. The quotient of two integers is always an integer.
ii. Every integer is a rational number.
iii. Every rational number is an integer.
iv. Every traction is a rational number.
v. Every rational number is a fraction.
vi. If $a / b$ is a rational number and $m$ any integer, then $(a / b)=(a \times m) /(b \times m)$
vii. Two rational numbers with different numerators cannot be equal.
viii. 8 can be written as a rational number with any integer as denominator.
ix. 8 can be written as a rational number with any integer as numerator.
$x$. $(2 / 3)$ is equal to $(4 / 6)$.
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[^0]:    **Link of Optimum Online E-Learning Platform:-https://www.optimumschool.net/online/login.php In case of any query call at $\mathbf{+ 9 1 - 9 8 1 8 0 3 3 2 1 3}$.

