

# MAHESH PUBLIC SCHOOL, JODHPUR

CLASS- VIII

SUBJECT- MATHEMATICS

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## RATIONAL NUMBERS

### Q1 State TRUE/FALSE

- (a) When we multiply a rational number with 1 we get the same number.
- (b) A rational number is always a whole number.
- (c) All whole numbers are rational numbers.
- (d) All the integers are rational numbers.

### Q2 Fill in the blanks

- (a) Zero has \_\_\_\_\_ reciprocal.
- (b) The product of a rational number and its inverse is \_\_\_\_\_.
- (c) The numbers 5 and -5 are their own \_\_\_\_\_.
- (d) The number \_\_\_\_\_ is not reciprocal of any number.

### Q3 Solve

- (a) Represent  $\frac{7}{4}$  on number line.
- (b) Write 5 rational numbers greater than -2.
- (c) Represent  $\frac{3}{4}$  on number line.
- (d) Arrange in ascending order  
 $\frac{2}{5}, \frac{1}{3}, -\frac{3}{4}, \frac{1}{6}$
- (e) Which is greater
  - (i)  $\frac{9}{-13}$  and  $\frac{7}{-12}$
  - (ii)  $-\frac{8}{9}$  and  $-\frac{9}{10}$
- (f) using appropriate properties find:  
 $\frac{2}{5} \times (-\frac{3}{7}) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5}$

**(g) Compare:**

**(i)  $-12/5$  and  $-3$**

**(ii)  $-2/3$  and  $5/-8$**

**(h) what should be subtracted from  $(3/4 - 2/3)$  to get  $-1/6$ .**

**(l) find the multiplicative inverse of  $\infty$ .**