

## CBSE 8th Class Mathematics

### Chapter Rational Number

#### CBSE TEST PAPER - 05

- A rational number  $p/q$  is said to be in the simplest form if the HCF of  $p$  and  $q$  is  
(a) 2 (b) 1  
(c) 0 (d) 3
- A rational number  $a/b$  is greater than  $c/d$  if  
(a)  $ad > bc$  (b)  $ad < bc$   
(c)  $ad = bc$  (d)  $ad \neq bc$
- Rational numbers are not closed under  
(a) Addition (b) Multiplication  
(c) Division (d) Subtraction
- Which expression shows the multiplicative identity of rational numbers?  
a)  $a \times 0 = 0 \times a = 0$ , where  $a$  is a rational number.  
b)  $a \times 1 = 1 \times a = a$ , where  $a$  is a rational number.  
c)  $a \times b = b \times a$ , where  $a$  and  $b$  are rational numbers.  
d)  $a \times (b \times c) = (a \times b) \times c$ , where  $a$ ,  $b$ , and  $c$  are rational numbers
- If  $A$  is a non-zero rational number, then which expression shows the existence of its multiplicative inverse?  
(a)  $m \times (1/m) = 1$  (b)  $m/m = 1$   
(c)  $m/1 = a$  (d)  $m \times 1 = m$   
(e) all of these
- Find ten rational numbers between 2 and 3.
- Find two rational numbers between  $\sqrt{2}$  and  $\sqrt{3}$ .
- A library has books on fiction, non-fiction, and reference books.  $5/9$  of all the books in the library are works of fiction and  $2/15$  are of non-fiction. If there are 7,294 reference books, how many books are there in the library?
- Identify the Properties Associated with the following:-  
(i)  $\frac{-5}{9} \times \frac{3}{5} = \frac{3}{5} \times \left(\frac{-5}{9}\right)$  (ii)  $\frac{1}{2} \times \left(\frac{2}{3} \times \frac{3}{4}\right) = \left(\frac{1}{2} \times \frac{2}{3}\right) \times \frac{3}{4}$   
(iii)  $\frac{1}{2} \times \left(\frac{2}{3} + \frac{3}{4}\right) = \frac{1}{2} \times \frac{2}{3} + \frac{1}{2} \times \frac{3}{4}$
- Represent the following rational numbers on the number line.  
(i)  $-3/7$  (ii)  $8/7$  (iii)  $1.062$  (iv)  $0.\bar{3}$