BAL BHARATI PUBLIC SCHOOL
GANGA RAM HOSPITAL MARG
MATHEMATICS
CLASS VIII
ASSIGNMENT NO. 1

Chapter 1 **Formative Assessment 2** **Chapter: Rational Numbers**

Q. 1 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

Q.2 Between any two distinct rational numbers there exist
(a) Finite rational numbers (b) Infinite rational numbers
© No rational number (d) none of the above

Q.3 A rational number a/b is greater than c/d if
(a) ad > bc (b) ad < bc (c) ad = bc (d) ad ≠ bc

Q.4 Is zero a rational number
(a) Yes (b) No (c) Can't say

Q.5 Rational numbers are not closed under
(a) Addition (b) Multiplication (c) Division (d) Subtraction

Q.6 Represent the following rational numbers on the number line
(a) -1/4 (b) -11/5 (c) -38/5 (d) -7/10 (e) -5/3

Q.7 Simplify
(i) -2/9 × 11/8 (b) 1⅜ ÷ ⅞ (iii) (-14/5)÷ (-35)
(iv) (-7/18) × (15/-7) – (1/4) + (1/2 ×1/4)

Q.8 Verify that (x + y) + z = x + (y + z) for
x = 3/2, y = 7/10 and z = -2/5

Q.9 Verify that (-3/4 + 17/8) + (-1/2) = -3/4 + {17/8 + (-1/2)}

Q.10 Find the multiplicative inverse of the following
(a) 7/2 (b) -23 (c) (-2/3) × (6/7) (d) 0 × 2/9

Q.11 Find b if b is a rational number and b × b = b

Q.12 The additive inverse of a negative number is _____

Q.13 Simplify
(a) (-4/9) × 3/5 × (-9/10) (b) (-11/7) × (4/14) × (21/33)
© (-3/5) × (-10/9) × (-21/4) × (-6)

Q.14 By taking x = 6/5, y = 3/7, z = 1/3
Verify (a) x × y = y × x (b) x × (y × z) = (x × y) × z
(c) x × (y + z) = x × y + x × z

Q.15 Simplify using a suitable property
(a) (-3/7) × 6/5 + (1/10) ×3/2 – (6/5) × (1/14)
(b) (-4/9) × (2/7) + (2/3) – (2/7) × (1/3)
© (3/10) × (-3/7) – (6/7) + (3/5) × (3/7)

Q.16 Find two rational numbers between -2 and 2.

Q. 17 Find three rational numbers between -1 and 0.

Q.18 Insert six rational numbers between -1 and 0.

Q.19 Find the rational numbers between ¼ and ½