

a fingerprint school Sincerity, Nobility and Service



Grade: VIII

Worksheet-Rational Numbers

MATHEMATICS

Answer the following:

- Find the multiplicative inverse of the following: 1.
- (i) $\frac{7}{18}$ (ii) $-\frac{0}{7}$ (iii) $\frac{2}{5}$ (iv) $\frac{0}{7}$
- Verify: $\left(\frac{3}{5} \times \frac{12}{13}\right) \times \frac{7}{18} = \frac{3}{5} \times \left(\frac{12}{13} \times \frac{7}{8}\right)$
- Verify: (i) $\frac{12}{5} + \frac{2}{7} = \frac{2}{7} + \frac{12}{5}$ (ii) $3 + \frac{-7}{12} = \frac{-7}{12} + 3$ 3.
- 4. Find the additive inverse of the following:

 - (i) $\frac{1}{3}$ (ii) $\frac{-17}{8}$ (iii) $\frac{15}{4}$
- Verify that a + b = b + a by taking 5.
 - (i) a = -7/5, b = 2/7
- (ii) a = -1, b = -2/3
- 6 Verify that (a+b)+c=a+(b+c) by taking
 - (i) a = -2, b = -2/3, c = -3/4
 - (ii) a = -12, b = -9/11, c = 7/-12
- 7. Simplify the following:
 - i) (2/3) + (-4/5) + I + (-2/3) + (-11/5)
 - ii)(5/8) + (-8/9) + 0 + (-13/3) + (17/24)
- 8. **Subtract:** i) (-3/4) from (1/2) ii) (5/8) from (-3/14)
- **Find the product of :** i) 5/9, -2/5 ii) -5, -3/159.
- 10. Verify the property $a \times (b \times c) = (a \times b) \times c$ by taking
 - i) a = (7/5), b = (-9/4), c = (1/2) ii) a = 1, b = (-13/5), c = (3/5)
- 11. Verify the property ax(b+c)=(axb)+(axc) by taking:

 - i) a = (1/3), b = 0, c = (-7/6) ii) a = -2, b = (9/5), c = (-2/15)