



## FICHA SEMANA 17

### Números Racionales (Q) y sus operaciones

| OPERACIÓN                                  | DEFINICIÓN                                                            | EJEMPLO                                                       |
|--------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------|
| ADICIÓN :<br>Con el mismo Denominador      | $\frac{a}{b} + \frac{c}{b} = \frac{a+c}{b}$                           | $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$                     |
| ADICIÓN :<br>Con diferente Denominador     | $\frac{a}{b} + \frac{c}{d} = \frac{a \cdot d + b \cdot c}{b \cdot d}$ | $\frac{5}{4} + \frac{1}{6} = \frac{15+2}{12} = \frac{17}{12}$ |
| SUSTRACCIÓN :<br>Con el mismo Denominador  | $\frac{a}{b} - \frac{c}{b} = \frac{a-c}{b}$                           | $\frac{5}{7} - \frac{1}{7} = \frac{4}{7}$                     |
| SUSTRACCIÓN :<br>Con diferente Denominador | $\frac{a}{b} - \frac{c}{d} = \frac{a \cdot d - b \cdot c}{b \cdot d}$ | $\frac{5}{4} - \frac{1}{6} = \frac{15-2}{12} = \frac{13}{12}$ |
| MULTIPLICACIÓN                             | $\frac{a}{b} \cdot \frac{c}{d} = \frac{a \cdot c}{b \cdot d}$         | $\frac{5}{4} \cdot \frac{1}{6} = \frac{5}{24}$                |
| DIVISIÓN                                   | $\frac{a}{b} : \frac{c}{d} = \frac{a \cdot d}{b \cdot c}$             | $\frac{5}{7} : \frac{1}{6} = \frac{30}{7}$                    |

**ACTIVIDAD 1: Resolver los siguientes ejercicios y ubica las respuestas.**  
(Los resultados están simplificados)

$$0,5 + \frac{4}{2} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{7}{4} + \frac{8}{4} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{8}{4} \times \frac{10}{6} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$0,25 \div \frac{3}{4} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\left(\frac{4}{3} \times \frac{2}{3}\right) \div \left(\frac{2}{3}\right)^2 = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \div \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\left(5 + \frac{1}{4}\right) - \left(3 + \frac{7}{6}\right) = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} - \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$