



## Matemática

### TEMAS: Operaciones de Fracciones

**1) Resuelve las siguientes multiplicaciones.** Primero realiza las multiplicaciones directas y luego, si es posible, SIMPLIFICA el resultado.

$$\frac{1}{5} \cdot \frac{4}{8} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{5}{9} \cdot \frac{3}{10} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{3}{8} \cdot \frac{9}{2} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{1}{2} \cdot \frac{3}{5} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{4}{2} \cdot \frac{2}{16} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{7}{8} \cdot \frac{8}{7} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \boxed{\phantom{00}}$$

$$\frac{4}{9} \cdot \frac{7}{4} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{8}{11} \cdot \frac{1}{6} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$



$$\frac{7}{10} \cdot \frac{10}{4} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{4}{10} \cdot \frac{2}{4} \cdot \frac{10}{6} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{12}{3} \cdot \frac{6}{4} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

2) Resuelve las siguientes divisiones.

$$\frac{1}{2} : \frac{2}{4} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{3}{9} : \frac{3}{4} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{3}{7} : \frac{2}{8} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{7}{8} : \frac{1}{5} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{3}{6} : \frac{3}{5} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$



## OPERACIONES COMBINADAS

Cuando hay diferentes operaciones en un mismo ejercicio hay que seguir un orden para resolverlas

**1ª** Se resuelven los paréntesis.

**2ª** Continuamos con las multiplicaciones y divisiones.

**3ª** Al final hacemos las sumas y las restas.

**Recordad:** el que una operación sea la 1ª que hagáis no quiere decir que sea la 1ª que tengáis que escribir. Tenéis que respetar el lugar en el que estaba y copiar todo con lo que no trabajasteis.

$$\frac{5}{6} + \frac{1}{3} \cdot \frac{3}{2} = \frac{5}{6} + \frac{3}{6} = \frac{8}{6} = \frac{4}{3} \qquad \frac{11}{3} - \left( \frac{8}{3} + \frac{2}{3} \right) = \frac{11}{3} - \frac{10}{3} = \frac{1}{3}$$

1ª

También pensad en las propiedades de las operaciones.

$$\frac{9}{7} \cdot \frac{4}{4} = \frac{9}{7} \quad \text{Como } \frac{4}{4} = 1 \quad \text{ya no hace falta multiplicarlo porque cualquier } n^\circ \text{ por } 1 \text{ da } 1.$$

3) Resuelve los siguientes cálculos combinados. Cuando sea posible, **SIMPLIFICA** hasta llegar a una fracción irreducible.

$$\frac{9}{13} - \left( \frac{5}{13} + \frac{3}{13} \right) = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} - \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\left( \frac{7}{8} - \frac{5}{8} \right) + \frac{10}{8} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} + \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\left( \frac{17}{6} - \frac{10}{6} \right) \cdot \frac{3}{4} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} \cdot \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{5}{6} + \frac{1}{3} \cdot \frac{1}{2} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} + \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \boxed{\phantom{00}}$$



$$\frac{13}{9} \cdot \frac{3}{2} - \frac{7}{6} \cdot \frac{2}{3} - \frac{3}{2} \cdot \frac{5}{9} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} - \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} - \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

$$\left(\frac{9}{5} + \frac{4}{5} - \frac{2}{5}\right) : \left(\frac{7}{6} - \frac{5}{6}\right) = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} : \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

$$\frac{8}{12} + \frac{3}{2} \cdot \left(\frac{9}{6} - \frac{1}{6}\right) = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} + \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} \cdot \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} + \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

**GENIAL!!!**  
**FELICITACIONES!!!**

