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**Apellidos:**

**Nombre:**

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Realizar las siguientes operaciones con números enteros **(4,5 puntos)**

1.  $5 + 4 \cdot 3 - [(-3) \cdot 2 + (10 - 2 \cdot 3) \cdot 8] =$

2.  $9 - 6 \cdot 2 - (3 - 5) \cdot 9 + 6 \cdot (4 - 10) - 5 \cdot 4 =$

3.  $(4 - 8 + 6 \cdot 5 - 20) \cdot [6 + (5 + 3) \cdot 3 - 5 \cdot (2 + 2)] =$

Realizar las siguientes operaciones combinadas con fracciones **(5,5 puntos)**:

4.  $\frac{1}{2} + \frac{2}{6} - \frac{4}{3} + \frac{7}{8} =$

5.  $\frac{2}{5} \cdot \frac{4}{3} + \frac{7}{10} \cdot \frac{3}{2} - \frac{3}{6} \div \frac{2}{5} =$

6.  $\frac{3}{4} + \frac{2}{5} \cdot \left(\frac{5}{2} - \frac{11}{8}\right) - \frac{7}{10} =$

7.  $\left(\frac{2}{3} \cdot \frac{4}{5} + \frac{9}{2} \cdot \frac{3}{10}\right) \div \left(\frac{2}{15} + \frac{10}{12} - \frac{3}{10}\right) =$

Realizar las siguientes operaciones combinadas con números enteros (4,5 puntos):

$$1. 5 + 4 \cdot 3 - [(-3) \cdot 2 + (10 - 2 \cdot 3) \cdot 8] = 5 + 12 - [-6 + (10 - 6) \cdot 8] =$$

$$= 5 + 12 - (-6 + 4 \cdot 8) = 5 + 12 - (-6 + 32) =$$

$$= 5 + 12 - 26 = \underline{\underline{-9}}$$

$$2. 9 - 6 \cdot 2 - (3 - 5) \cdot 9 + 6 \cdot (4 - 10) - 5 \cdot 4 = 9 - 12 - (-2) \cdot 9 + 6 \cdot (-6) - 20 =$$

$$= 9 - 12 + 18 - 36 - 20 = \underline{\underline{-41}}$$

$$3. (4 - 8 + 6 \cdot 5 - 20) \cdot [6 + (5 + 3) \cdot 3 - 5 \cdot (2 + 2)] = (4 - 8 + 30 - 20) \cdot (6 + 8 \cdot 3 - 5 \cdot 4) =$$

$$= 6 \cdot (6 + 24 - 20) = 6 \cdot 10 = \underline{\underline{60}}$$

Realizar las siguientes operaciones combinadas con fracciones (5,5 puntos):

$$4. \frac{1}{2} + \frac{2}{6} - \frac{4}{3} + \frac{7}{8} = \frac{12}{24} + \frac{8}{24} - \frac{32}{24} + \frac{21}{24} = \frac{9}{24} = \underline{\underline{\frac{3}{8}}}$$

$$5. \frac{2}{5} \cdot \frac{4}{3} + \frac{7}{10} \cdot \frac{3}{2} - \frac{3}{6} \div \frac{2}{5} = \frac{8}{15} + \frac{21}{20} - \frac{15}{12} =$$

$$= \frac{32}{60} + \frac{63}{60} - \frac{75}{60} = \frac{20}{60} = \underline{\underline{\frac{1}{3}}}$$

$$6. \frac{3}{4} + \frac{2}{5} \cdot \left( \frac{5}{2} - \frac{11}{8} \right) - \frac{7}{10} = \frac{3}{4} + \frac{2}{5} \cdot \left( \frac{20}{8} - \frac{11}{8} \right) - \frac{7}{10} =$$

$$= \frac{3}{4} + \frac{2}{5} \cdot \frac{9}{8} - \frac{7}{10} = \frac{3}{4} + \frac{18}{40} - \frac{7}{10} = \frac{30}{40} + \frac{18}{40} - \frac{28}{40} = \underline{\underline{\frac{20}{40}}}$$

$$= \underline{\underline{\frac{1}{2}}}$$

$$7. \left( \frac{2}{3} \cdot \frac{4}{5} + \frac{9}{2} \cdot \frac{3}{10} \right) \div \left( \frac{2}{15} + \frac{10}{12} - \frac{3}{10} \right) = \left( \frac{8}{15} + \frac{27}{20} \right) : \left( \frac{2}{15} + \frac{10}{12} - \frac{3}{10} \right) =$$

$$\left( \frac{32}{60} + \frac{81}{60} \right) : \left( \frac{8}{60} + \frac{50}{60} - \frac{18}{60} \right) = \frac{113}{60} : \frac{40}{60} = \frac{113 \cdot 60}{60 \cdot 40} = \underline{\underline{\frac{113}{40}}}$$