



1.- Calcula y **simplifica** el resultado:

i. $\frac{1}{5} + \frac{5}{3} : \frac{2}{3} = \frac{1}{5} + \frac{15}{6} = \frac{6+75}{30} = \frac{81}{30} = \frac{27}{10}$

ii. $\left(\frac{1}{4} + \frac{1}{8} - \frac{1}{16}\right) \cdot \frac{8}{3} + 1 = \left(\frac{4+2-1}{16}\right) \cdot \frac{8}{3} + 1 = \frac{5}{16} \cdot \frac{8}{3} + 1 = \frac{40}{48} + 1 = \frac{88}{48} = \frac{11}{6}$

iii. $\left(3 + \frac{1}{5}\right) - \left(1 + \frac{1}{5}\right) = \frac{16}{5} - \frac{6}{5} = \frac{11}{5}$

iv. $\left(5 + \frac{1}{4}\right) : \left(1 - \frac{2}{3}\right) = \frac{21}{4} : \frac{1}{3} = \frac{63}{4}$

v. $\frac{2}{5} \cdot \frac{1}{6} + 3 \cdot \frac{1}{5} - \frac{1}{10} : 2 = \frac{2}{30} + \frac{3}{5} - \frac{1}{20} = \frac{4+36-1}{60} = \frac{39}{60} = \frac{13}{20}$

2.- Realiza las siguientes operaciones con enteros:

i. $(-2) + (-3) - (-5) = -2 - 3 + 5 = 0$

ii. $-5 - 8 + (-2) = -5 - 8 - 2 = -15$

iii. $(2-3) - (5+4) - (8-9) = -1 - 9 - (-1) = -1 - 9 + 1 = -9$

iv. $1 - (2-4-7) - 3 = 1 - (-9) - 3 = 1 + 9 - 3 = 7$

v. $(-3) + (-5) - (-8) = -3 - 5 + 8 = 0$

vi. $3-5+5-7-9+2-1 = -2-2-9+2-1 = -13+1 = -12$

vii. $-1-3-5-6-2+10 = -17+10 = -7$

viii. $(-2)^2 + 4^2 - 3^2 = 4 + 16 - 9 = 11$

ix. $2^3 - (-3)^3 = 8 - (-27) = 8 + 27 = 35$

x. $3^2 + (-5)^2 + (-1)^5 = 9 + 25 - 1 = 33$