a c c b b	Nombre:					Nota
	Curso:	Grupo:	Fecha:	Control Operaciones		
	2º ESO	C-D	11/11/22	Cada ejercicio correcto vale un punto		

Calcula paso a paso las siguientes operaciones combinadas con números enteros, fracciones y potencias.

$$/)$$
 $-7-15+8+10-9-6+11=$

//)
$$7\cdot(28-6\cdot4)-(3\cdot4+4):8+2=$$

///)
$$[(-5)-(-3)]-[-(-4)-(-7)] =$$

$$/V$$
) $-(-2)\cdot(-(-3)^2)\cdot(-(-(-4)^0))\cdot(-1)=$

$$V) \frac{2}{3} + \frac{5}{6} + \frac{7}{15} =$$

$$\sqrt{1}$$
 $\frac{12}{15} - 3 + \frac{40}{12} - \frac{10}{8} =$

$$V/1$$
) $\frac{5}{2} + 2 \cdot \left(7 - \frac{1}{3}\right) - 8 =$

$$V//// 3 + \frac{1}{4} \left[\frac{1}{2} + 3 \left(4 - \frac{2}{3} \right) \right] =$$

$$(X)$$
 $(5^8 \cdot 5^4) : (5^2)^5 =$

$$X$$
) $\left[2^{9}:\left(2^{3}\right)^{2}\right]:5^{3}=$

Bonus)
$$\left[\left(m^8:m^6\right)^2\right]^5 =$$

B C D	Nombre:	RESOLUCIÓN			1ª Evaluación	Nota
	Curso:	Grupo:	Fecha:	Control Operaciones		
	2º ESO	C-D	11/11/22	Cada ejercicio correcto vale un	punto	

Calcula paso a paso las siguientes operaciones combinadas con números enteros, fracciones y potencias.

$$(7)$$
 $-7-15+8+10-9-6+11=+(8+10+11)-(7+15+9+6)=29-37=-8$

//)
$$7\cdot(28-6\cdot4)-(3\cdot4+4):8+2=7\cdot(28-24)-(12+4):8+2=7\cdot4-16:8+2=28-2+2=28$$

///)
$$[(-5)-(-3)]-[-(-4)-(-7)] = [-5+3]-[4+7]=-2+11=9$$

$$/V$$
) $-(-2)\cdot(-(-3)^2)\cdot(-(-(-4)^0))\cdot(-1) = 2\cdot(-9)\cdot(-1) = 18$

V)
$$\frac{2}{3} + \frac{5}{6} + \frac{7}{15} = \frac{10 \cdot 2}{30} + \frac{5 \cdot 5}{30} + \frac{7 \cdot 2}{30} = \frac{20}{30} + \frac{25}{30} + \frac{14}{30} = \frac{20 + 25 + 14}{30} = \frac{59}{30}$$

$$\sqrt{1} \frac{12}{15} - 3 + \frac{40}{12} - \frac{10}{8} = \frac{4}{5} - 3 + \frac{10}{3} - \frac{5}{4} = \frac{4 \cdot 12}{60} - \frac{3 \cdot 60}{60} + \frac{10 \cdot 20}{60} - \frac{5 \cdot 15}{60} = \frac{48}{60} - \frac{180}{60} + \frac{200}{60} - \frac{75}{60} = \frac{-7}{60}$$

$$V/) \frac{5}{2} + 2 \cdot \left(7 - \frac{1}{3}\right) - 8 = \frac{5}{2} + 2 \cdot \left(\frac{7 \cdot 3}{3} - \frac{1}{3}\right) - 8 = \frac{5}{2} + 2 \cdot \left(\frac{21}{3} - \frac{1}{3}\right) - 8 = \frac{5}{2} + 2 \cdot \left(\frac{20}{3}\right) - 8 = \frac{5}{2} + \frac{40}{3} - 8 = \frac{5}{2} + \frac{2 \cdot 40}{6} - \frac{6 \cdot 8}{6} = \frac{15}{6} + \frac{80}{6} - \frac{48}{6} = \frac{47}{6}$$

$$VIII) \quad 3 + \frac{1}{4} \left[\frac{1}{2} + 3 \cdot \left(4 - \frac{2}{3} \right) \right] = 3 + \frac{1}{4} \left[\frac{1}{2} + 3 \cdot \left(\frac{4 \cdot 3}{3} - \frac{2}{3} \right) \right] = 3 + \frac{1}{4} \left[\frac{1}{2} + 3 \cdot \left(\frac{12}{3} - \frac{2}{3} \right) \right] = 3 + \frac{1}{4} \left[\frac{1}{2} + 3 \cdot \left(\frac{10}{3} \right) \right] = 3 + \frac{1}{4} \left[\frac{1}{2} + 10 \right] = 3 + \frac{1}{4} \left[\frac{1}{2} + \frac{20}{2} \right] = 3 + \frac{1}{4} \left[\frac{21}{2} \right] = 3 + \frac{21}{8} = \frac{24}{8} + \frac{21}{8} = \frac{45}{8}$$

$$(X)$$
 $(5^8 \cdot 5^4) : (5^2)^5 = 5^{8+4} : 5^{2 \cdot 5} = 5^{12} : 5^{10} = 5^{12-10} = 5^2$

X)
$$\left[2^{9}:\left(2^{3}\right)^{2}\right]\cdot 5^{3} = \left(2^{9}:2^{3\cdot 2}\right)\cdot 5^{3} = \left(2^{9}:2^{6}\right)\cdot 5^{3} = 2^{9-6}\cdot 5^{3} = 2^{3}\cdot 5^{3} = \left(2\cdot 5\right)^{3} = 10^{3}$$

Bonus)
$$\left[\left(m^8:m^6\right)^2\right]^5 = \left[\left(m^{8-6}\right)^2\right]^5 = \left[\left(m^2\right)^2\right]^5 = \left[m^{2\cdot2}\right]^5 = \left(m^4\right)^5 = m^{4\cdot5} = m^{20}$$