

Instituto Privado Mixto "Rafael Arévalo Martínez"



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Catedrático(a): Sandra Díaz Villeda

Carrera: Administración de Empresas

Grado: Cuarto

Curso: Matemáticas

Contenido: Operaciones Combinadas

Ciclo Escolar: 2,021

Operaciones Combinadas

Indicaciones: Resuelva las siguientes operaciones en tu cuaderno, envíe evidencia de su trabajo

b) $\frac{6}{12} + \left(\frac{4}{9}\right)\left(\frac{9}{6}\right) = \frac{6}{12} + \left(\frac{4}{9} \times \frac{9}{6}\right) =$

$$\frac{6}{12} + \frac{36}{54} = \frac{54}{108} + \frac{72}{108} = \frac{126}{108} = \frac{63}{54} =$$

12	-	54	2	$\frac{21}{18} = \frac{7}{6} = 1\frac{1}{6}$
6	-	27	2	
3	-	27	3	
1	-	9	3	
		3	3	
		1	108	

c) $\frac{6}{10} - \left(\frac{7}{9}\right) \div \left(\frac{10}{6}\right) = \frac{6}{10} - \left(\frac{7}{9} \div \frac{10}{6}\right) =$

$$\frac{6}{10} - \frac{42}{90} = \frac{54}{90} - \frac{42}{90} = \frac{12}{90} = \frac{6}{45}$$

10	-	90	2	$\frac{2}{15}$
5	-	45	3	
5	-	15	3	
5	-	5	5	
1	-	1	90	

$$d) \frac{3}{12} \cdot \left(\frac{4}{9}\right) \cdot \left(\frac{9}{6}\right) + \frac{4}{12} = \left(\frac{3}{12} \times \frac{4}{9} \times \frac{9}{6}\right) + \frac{4}{12} =$$

$$\frac{108}{648} + \frac{4}{12} = \frac{108 + 216}{648} = \frac{324}{648} =$$

$$\frac{648}{324} - \frac{12}{6} = \frac{162}{324} = \frac{81}{162} = \frac{27}{54} =$$

$$\frac{162}{81} - \frac{3}{3} =$$

$$\frac{27}{9} - \frac{1}{1} =$$

$$\frac{9}{3} - \frac{3}{3} =$$

$$\frac{3}{1} - \frac{3}{1} =$$

$$\frac{1}{1} - \frac{3}{1} =$$

$$\frac{1}{1} - \frac{3}{1} =$$

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$$\frac{1}{1} - \frac{3}{1} =$$

$$e) 6\frac{8}{5} + \left(7\frac{4}{9}\right)3\left(2\frac{9}{6}\right)4 =$$

$$\frac{38}{5} + \left(\frac{67}{9} \times \frac{3}{1} \times \frac{21}{6} \times \frac{4}{1}\right) = \frac{38}{5} + \frac{16,884}{54}$$

$$5 - 54 = 2$$

$$5 - 27 = 3$$

$$5 - 9 = 3$$

$$5 - 3 = 3$$

$$5 - 1 = 5$$

$$1 - 270 =$$

$$\frac{2,052 + 84,420}{270} =$$

$$\frac{86,472}{270} = \frac{43,236}{135} =$$

$$\frac{14,412}{45} = \frac{4,804}{15} =$$

$$320\frac{4}{15}$$

$$f) \frac{6}{12} + \left(\frac{4}{9}\right)\left(\frac{9}{6}\right)\frac{4}{3} - \frac{7}{6} + 9 =$$

$$\frac{6}{12} + \left(\frac{4}{9} \times \frac{9}{6} \times \frac{4}{3}\right) - \frac{7}{6} + \frac{9}{1} =$$

$$\frac{6}{12} + \frac{144}{162} - \frac{7}{6} + \frac{9}{1} =$$

$$\frac{162 + 288 - 378 + 2916}{324} = \frac{3366 - 378}{324} =$$

$$\begin{array}{r} 12 - 162 - 6 - 1 \mid 2 \\ 6 - 81 - 3 - 1 \mid 2 \\ 3 - 81 - 3 - 1 \mid 3 \\ 1 - 27 - 1 - 1 \mid 3 \\ \quad 9 \quad \quad 3 \\ \quad 3 \quad \quad 3 \\ \quad 1 \quad \quad 324 \end{array}$$

$$\frac{2,988}{324} = \frac{1,494}{162} =$$

$$\frac{747}{81} = \frac{249}{27}$$

$$\frac{83}{9} = 9 \frac{2}{9}$$

Sheily Vásquez