

015 

$$\frac{5}{7} + \frac{6}{8} - \frac{3}{5} + \frac{1}{3}$$

1/2/3E 

mcm: 840

$$= \frac{600 + 630 - 504 + 280}{840} =$$

$$= \frac{1006}{840}$$

$$= 503/420$$

016 

$$\frac{5}{7} + \frac{1}{7} - \frac{5}{14} - \frac{3}{21}$$

1/2/3E 

mcm: 42

$$= \frac{5}{7} + \frac{1}{7} + \frac{5}{14} - \frac{3}{21} =$$

$$= \frac{30 + 6 + 15 - 6}{42} =$$

$$= \frac{51 - 6}{42} = \frac{45}{42}$$

$$= 15/14$$

017 

$$\frac{1}{4} + \frac{2}{10} - \frac{1}{5} + \frac{6}{8}$$

1/2/3E 

mcm: 40

$$= \frac{10 + 8 - 8 + 30}{40} = \frac{40}{40} =$$

$$= 1$$

028 

$$\left(\frac{7}{3} - \frac{1}{5}\right) - \left(\frac{5}{6} - \frac{1}{3}\right)$$

1/2/3E 

mcm: 2·3·5 = 30

$$= \frac{7}{3} - \frac{1}{5} - \frac{5}{6} + \frac{1}{3} =$$

$$= \frac{70 - 6 - 25 + 10}{30} =$$

$$= 49/30$$

029 

$$\left(3 - \frac{5}{2}\right) - \frac{5}{4}$$

1/2/3E 

mcm: 4

$$= \frac{12 - 10 - 5}{4} =$$

$$= - 3/4$$

030 

$$\frac{5}{3} - \left(3 - \frac{1}{3}\right)$$

1/2/3E 

mcm: 4

$$= \frac{5}{3} - 3 + \frac{1}{3} =$$

$$= \frac{5 - 9 + 1}{3} = \frac{-3}{3} =$$

$$= - 1$$



Prioridad de operaciones. JERARQUÍA

037	$\frac{5}{2} \cdot \frac{3}{20} \cdot \frac{8}{9} \cdot \frac{3}{5}$	1E 2E 3E
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$$= \frac{5 \cdot 3 \cdot 2^3 \cdot 3}{2 \cdot 5 \cdot 2^2 \cdot 3^2 \cdot 5} = \frac{1}{5}$$

= 1/5

038	$\frac{5}{3} \cdot \frac{-2}{5} \cdot \frac{3}{15} \cdot 5 \cdot \frac{-2}{6}$	1E 2E 3E
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$$= \frac{5 \cdot 2 \cdot 3 \cdot 5 \cdot 2}{3 \cdot 5 \cdot 3 \cdot 5 \cdot 3 \cdot 2} =$$

= 2/9

039	$\frac{5}{7} \cdot \frac{-4}{6} \cdot \frac{-3}{15} \cdot \frac{16}{8} \cdot \frac{-7}{2}$	1E 2E 3E
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$$= \frac{-5 \cdot 2 \cdot 2 \cdot 3 \cdot 2^4 \cdot 7}{7 \cdot 2 \cdot 3 \cdot 5 \cdot 3 \cdot 2^3 \cdot 2} =$$

= 2/3

040	$\frac{6}{9} \cdot \frac{2}{3} \cdot \frac{1}{7} \cdot 4 \cdot \frac{3}{4}$	1/2/3E
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Método 1

$$= \frac{144}{756} =$$

$$= \frac{12}{63} =$$

Método 2

$$= \frac{2 \cdot 3 \cdot 2 \cdot 2 \cdot 2 \cdot 3}{3 \cdot 3 \cdot 3 \cdot 7 \cdot 2 \cdot 2} =$$

$$= \frac{2 \cdot 2}{3 \cdot 7} =$$

= 4/21

041	$-\frac{1}{11} \cdot \left(\frac{-2}{15}\right) \cdot \frac{22}{5} \cdot \frac{1}{4}$	1/2/3E
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Método 1

$$= + \frac{44}{3300} =$$

$$= \frac{22}{1650} = \frac{11}{825} =$$

Método 2

$$= + \frac{2 \cdot 2 \cdot 11}{11 \cdot 3 \cdot 5 \cdot 5 \cdot 2 \cdot 2} =$$

$$= + \frac{1}{3 \cdot 5 \cdot 5} =$$

= 1/75

054	$\frac{4}{14} \cdot \frac{2}{7} \cdot \frac{2}{6}$	1E 2E 3E
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Método 1

$$\frac{4}{14} \cdot \frac{2}{7} \cdot \frac{2}{6} = \frac{56}{168} =$$

$$= \frac{28}{84} = \frac{14}{42} = \frac{7}{21} =$$

Método 2

$$= \frac{4 \cdot 7 \cdot 2}{2 \cdot 7 \cdot 2 \cdot 6} =$$

$$= \frac{2 \cdot 2 \cdot 7 \cdot 2}{2 \cdot 7 \cdot 2 \cdot 3 \cdot 2} =$$

= 1/3

063	$3 \cdot \left(\frac{1}{6} - \frac{1}{2}\right)$	1E 2E 3E
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$$= 3 \cdot \frac{1-3}{6} =$$

$$= \frac{-2}{2} =$$

= - 1

064 

$$\frac{12}{5} : \frac{10}{5} : \frac{6}{15} \cdot \frac{-1}{-2} : \frac{3}{-8}$$

1E
2E
3E

$$= + \frac{2 \cdot 2 \cdot 3 \cdot 5 \cdot 3 \cdot 5 \cdot 2 \cdot 2 \cdot 2}{5 \cdot 5 \cdot 2 \cdot 2 \cdot 3 \cdot 2 \cdot 2 \cdot 2 \cdot 2} =$$

$$= 4$$

065 

$$\frac{10}{-3} \cdot \frac{-4}{5} : \frac{16}{20} \cdot \frac{2}{-10} \cdot \frac{25}{8}$$

1E
2E
3E

$$= \frac{-2 \cdot 5 \cdot 2 \cdot 2 \cdot 5 \cdot 2 \cdot 2 \cdot 2 \cdot 5 \cdot 5}{3 \cdot 5 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 5 \cdot 2 \cdot 2 \cdot 2} =$$

$$= - 25/27$$

001 

$$\frac{2}{3} + \frac{1}{6} - \frac{2}{9} + \frac{5}{8} - \frac{5}{18}$$

1/2/3ESO 

mcm: 3·3·2·2·2 = 72

$$= \frac{48+12-16+45-20}{72} =$$

$$= \frac{69}{72}$$

$$= 23/24 = 0.95833...$$

010 

$$2 \cdot \left(\frac{2}{5} + \frac{3}{2} \right)$$

1/2/3ESO 

$$\text{pencil} = 2 \cdot \left(\frac{4+15}{10} \right) =$$

$$= 2 \cdot \frac{19}{10} =$$

$$= 19/5 = 3 \frac{4}{5}$$

012 

$$2 \cdot \left(\frac{3}{5} + \frac{3}{4} \right)$$

1/2/3ESO 

$$\text{pencil} = 2 \cdot \frac{12+15}{20} = 2 \cdot \frac{27}{20} =$$

$$= 27/10$$

014 

$$\frac{1}{5} : \frac{3}{2} + \frac{4}{5} \cdot \frac{1}{3}$$

1/2/3ESO 

$$\text{pencil} = \frac{2}{15} + \frac{4}{15} = \frac{6}{15} =$$

$$= 2/5 = 0.4$$

015 

$$\frac{2}{5} \cdot \frac{3}{2} + \frac{4}{5} : \frac{2}{3}$$

1/2/3ESO 

$$\text{pencil} = \frac{3}{5} + \frac{12}{10} =$$

mcm: 10

$$= \frac{6+12}{10} = 18/10 =$$

$$= 9/5 = 1 \frac{4}{5} = 1.8$$



023

$$1 - \frac{1}{2} : \frac{1}{5} - \frac{1}{4} : \frac{2}{5}$$

1/2/3ESO

$$= 1 - \frac{5}{2} - \frac{5}{8} =$$

mcm: 8

$$= \frac{8 - 20 - 5}{8} =$$

$$= -17/8$$

024

$$\left(\frac{2}{3} + \frac{2}{5} : \frac{2}{3}\right) \cdot 2 + \frac{2}{5} \cdot \frac{1}{2}$$

1/2/3ESO

$$= \left(\frac{2}{3} + \frac{6}{10}\right) \cdot 2 + \frac{2}{10} =$$

$$= \frac{38}{30} \cdot 2 + \frac{2}{10} =$$

$$\frac{38}{15} + \frac{2}{10} =$$

mcm: 30

$$\frac{76 + 6}{30} = \frac{82}{30} =$$

$$= \frac{41}{15} = 2 \frac{11}{15}$$

025

$$\left(\frac{1}{3} + \frac{3}{5} : \frac{2}{3}\right) \cdot 2 + \left(\frac{2}{5} \cdot \frac{1}{2}\right)$$

1/2/3ESO

$$= \left(\frac{1}{3} + \frac{9}{10}\right) \cdot 2 + \frac{1}{5} =$$

$$= \left(\frac{10 + 27}{30}\right) \cdot 2 + \frac{1}{5} =$$

$$\frac{37}{15} + \frac{1}{5} =$$

mcm: 15

$$\frac{37 + 3}{15} = \frac{40}{15} = \frac{8}{3}$$

$$= 8/3$$

026

$$\left(\frac{1}{3} + \frac{3}{5} : \frac{3}{2}\right) \cdot 5 + \left(\frac{2}{5} \cdot \frac{1}{2}\right)$$

1/2/3ESO

$$= \left(\frac{1}{3} + \frac{3 \cdot 2}{5 \cdot 3}\right) \cdot 5 + \frac{1}{5} =$$

$$= \left(\frac{1}{3} + \frac{2}{5}\right) \cdot 5 + \frac{1}{5} =$$

$$\left(\frac{5 + 6}{15}\right) \cdot 5 + \frac{1}{5} = \left(\frac{11}{15}\right) \cdot 5 + \frac{1}{5} =$$

$$= \frac{11}{3} + \frac{1}{5} =$$

mcm: 15

$$\frac{55 + 3}{15} =$$

$$= 58/15$$