Fecha 30/10/24

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Taller #1 Operaciones con numeros Reales

Matematicas

ejercicios:

12420	2
12210	2
01100	2
00000	

① Suma:

1/ $\frac{12}{7} + \frac{4}{7} + \frac{20}{7} = +\frac{36}{7}$ → 12+4+20=36, 7+++++=7

2/ $\frac{31}{17} + \frac{41}{17} + \frac{38}{17} = +\frac{110}{17}$ → 31+41+38=110, 17++17+17=17

3/ $\frac{9}{2} + \frac{13}{2} - \left(\frac{4}{2} + \frac{1}{2}\right) = +\frac{17}{2}$

4/ $\frac{14}{11} - \left(\frac{3}{11} + \frac{1}{11} + \frac{2}{11}\right) + \frac{8}{11} = -\frac{16}{11}$

5/ $\frac{9}{2} + \frac{13}{2} - \left(\frac{4}{2} + \frac{1}{2}\right) = +\frac{17}{2}$ 9+13+4+1=17, 2+2+2+2=2

6/ $\frac{21}{13} - \left(\frac{4}{3} - \frac{1}{13}\right) + \frac{11}{13} + \frac{2}{13} = +\frac{31}{13}$ 21+4+1+11+2=31, 13+13+13=13

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Resta: cantidad de cafe en colombia

① colombia Brasil Guinea y Venezuela

$\frac{1}{2} + \frac{1}{4} + \frac{1}{5}$ y $\frac{1}{20}$

$1 - \frac{1}{2} - \frac{1}{4} - \frac{1}{5} = \frac{20}{20} - \frac{10}{20} - \frac{5}{20} - \frac{4}{20}$

Por lo tanto en la mezcla hay $\frac{1}{20}$ kg de cafe en colombia

② cantidad de cafe en colombia utilizando la mezcla B

$\frac{1}{3}, \frac{1}{5}, \frac{1}{6}$ y $\frac{1}{20}$ - la fraccion de cafe colombia restamos la fraccion de 1kg

$1 - \frac{1}{3} - \frac{1}{5} - \frac{1}{6} = \frac{120}{120} - \frac{15}{120} - \frac{24}{120}$

Por lo tanto en la mezcla B hay $\frac{61}{126}$ kg de cafe en colombia

Multiplicacion

$\frac{2}{3} \times \frac{1}{4} \times \frac{3}{5} = \frac{2 \times 1 \times 3}{3 \times 4 \times 5} = \frac{6}{60} = \frac{1}{10}$ Mitad

$\frac{4}{7} \times \frac{5}{6} \times \frac{9}{5} = \frac{4 \times 5 \times 9}{7 \times 6 \times 5} = \frac{180}{240} = \frac{6}{7}$ Mitad

$\frac{1}{8} \times \frac{2}{3} \times \frac{2}{9} = \frac{1 \times 2 \times 2}{8 \times 3 \times 9} = \frac{4}{216} = \frac{6}{7}$ Mitad

$\frac{3}{2} \times \frac{9}{10} \times \frac{4}{6} = \frac{3 \times 9 \times 4}{2 \times 10 \times 6} = \frac{108}{120} = \frac{27}{30}$ Mitad

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Cevap: $\frac{4}{5} - \frac{1}{7} = \frac{28-5}{35} = \frac{23}{35}$ ✓

$\frac{9}{15} - \frac{3}{8} = \frac{72-45}{120} = \frac{27}{120} = \frac{9}{40}$ ✓

$\frac{3}{10} - \frac{1}{12} = \frac{18-5}{60} = \frac{13}{60}$ ✓

$\frac{2}{3} - \frac{4}{7} = \frac{14-12}{21} = \frac{2}{21}$ ✓

$\frac{23}{7} \quad \frac{-14}{7} = \frac{23}{7} - \frac{14}{7} = \frac{9}{7}$ ✓

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Multiplicación

$\frac{3}{7} \times \frac{2}{9} \times \frac{1}{8} = \frac{3 \times 2 \times 1}{7 \times 9 \times 8} = \frac{6}{504} = \frac{1}{84}$ Mitad ✓

$\frac{1}{3} \times \frac{3}{11} \times \frac{4}{7} = \frac{1 \times 3 \times 4}{3 \times 11 \times 7} = \frac{12}{231} = \frac{4}{231} = \frac{4}{231}$ Mitad ✗

División:

$\frac{4}{5} \div \frac{3}{7} = \frac{4 \times 7}{5 \times 3} = \frac{28}{15}$ ✓

$\frac{7}{9} \div \frac{2}{12} = \frac{7 \times 12}{9 \times 2} = \frac{84}{15}$ ✓

$\frac{3}{7} \div \frac{2}{8} = \frac{3 \times 8}{7 \times 2} = \frac{24}{14} = \frac{12}{17}$ ✓

$\frac{4}{11} \div \frac{3}{16} = \frac{4 \times 16}{11 \times 3} = \frac{64}{33}$ ✓

$\frac{9}{12} \div \frac{7}{5} = \frac{9 \times 4}{12 \times 7} = \frac{45}{84}$ ✓

$\frac{7}{9} \div \frac{2}{12} = \frac{7 \times 12}{9 \times 2} = \frac{84}{15} = \frac{42}{9}$ ✓

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