Saudith Zapata

Calcular las sigientes operaciones combinadas con fracciones. y simplificar. si es posible el resultado

a

$$\frac{5}{4} + \frac{3}{4} \cdot \frac{7}{6} = \frac{5}{4} + \frac{3}{24} \Rightarrow \frac{5}{4} \times \frac{7}{8} = \frac{40+4}{32}$$

$$\frac{44}{32} = \frac{11}{8}$$

b) $\frac{2}{9} - \frac{5}{6} : \frac{4}{3} = \frac{2}{9} - \frac{15}{24} = \frac{48-135}{216} = \frac{87}{216}$

$$= -\frac{29}{72}$$

Saudith zapata

c) $-\frac{3}{8}\left[3-\frac{3}{5}-\left(\frac{17}{20}-1\right)\cdot\left(\frac{1}{3}-3\right)\right]$

$-\frac{3}{8}\left[3-\frac{3}{5}-\left(\frac{17-20}{20}\right)\cdot\frac{1-9}{3}\right]$

$-\frac{3}{8}\left[\frac{3}{1}-\frac{3}{5}-\left(\frac{-3}{20}\right)\cdot\left(\frac{-8}{3}\right)\right]$

$-\frac{3}{8}\left[\frac{3}{1}-\frac{3}{5}-\frac{24}{60}\right] = -\frac{3}{8}\left(\frac{3}{1}-\frac{3}{5}-\frac{2}{5}\right)$

$-\frac{3}{8}\left(\frac{15-3-2}{5}\right) = -\frac{3}{8}\cdot\frac{10}{5} = -\frac{3}{8}\cdot\frac{2}{1} = -\frac{3}{4}$

D) $\frac{5}{12}-\frac{7}{3}:\left(\frac{4}{3}+2\right)$

$\frac{4+6}{3}+\frac{10}{3}$

$\left(\frac{\frac{7}{3}}{\frac{10}{3}}\right)$ $\frac{21}{30}$

$\frac{15}{12}-\frac{7}{3}:\frac{10}{3} = \frac{21}{30} = \frac{7}{10}$

$\frac{5}{12}-\frac{7}{10} = \frac{50-84}{120} = -\frac{34}{120} = \frac{17}{60}$

Saudith Zapata

e, $\frac{3}{8} - 5 = \frac{4}{3} + \frac{27}{9}$

$\frac{2}{9} \quad \frac{27}{9} = \frac{54}{81} = \frac{18}{24} = \frac{6}{9} = \frac{2}{3}$

$-\frac{5}{6} : \frac{4}{3} = -\frac{15}{24} - \frac{5}{8} + \frac{2}{3} = \frac{15+16}{24} = \frac{1}{24}$

$\frac{3}{8} + \frac{1}{24} = \frac{72+8}{192} = \frac{80}{192} = \frac{40}{96} = \frac{20}{48} = \frac{10}{24}$

$= \frac{5}{12}$

F, $\frac{11}{6} \cdot \frac{5}{2} - \frac{7}{25} = \frac{22}{30} - \frac{7}{25} = \frac{550 - 210}{750} = \frac{340}{750}$

$= \frac{34}{75}$

Saudith Zapata

I.

$$\frac{5}{36} - \left(\frac{7}{76} + \frac{1}{4} : \frac{3}{5}\right)$$

$$\frac{1}{4} : \frac{3}{5} = \frac{5}{12} = \frac{7}{76} + \frac{5}{12} = \frac{80+84}{792} = \frac{164}{792}$$

$$\frac{82}{96} = \frac{41}{46}$$

$$= \frac{5}{36} - \frac{41}{46} = \frac{230-1476}{1656} = \frac{1246}{1656} = -\frac{623}{828}$$

II.

$$H, \left[\frac{6}{5} : \frac{9}{10} - \left(2 - \frac{7}{12}\right)\right] + \frac{7}{24} = \frac{2}{11} - \frac{7}{12}$$

$$= \frac{24-7}{12}$$

$$\left[\frac{6}{5} : \frac{9}{10} \left(\frac{2}{1} - \frac{7}{12} = \frac{24-7}{12} = \frac{17}{12}\right)\right] + \frac{7}{24}$$

$$\left[\frac{60}{45} - \frac{17}{12}\right] + \frac{7}{24} = \frac{720-765}{540} = \frac{-45}{540} = \frac{9}{108}$$

$$4 - \frac{9}{108} = \frac{756-2016}{2592} - = \frac{540}{2592} = \frac{180}{864} = \frac{5}{24}$$

Saodith Zapata

2 Convertir en fracciones mixta las siguientes fracciones impropias.

a $\frac{7}{5} = \frac{12}{5}$

B. $\frac{14}{3} = 4\frac{2}{3}$

C $\frac{11}{7} = \frac{14}{7}$

D $\frac{351}{32} = 10\frac{31}{32}$

e $\frac{8571}{317} = 27\frac{12}{317}$

3) a $1\frac{7}{8} = \frac{13}{8}$

B. $3\frac{14}{15} = \frac{59}{15}$

C $2\frac{1}{7} = \frac{133}{32}$

e $5\frac{2}{9} = \frac{47}{9}$

Saudith Zapata

6

a $\frac{7}{5} \cdot \frac{3}{3} = \frac{21}{5}$

b $\frac{14}{3} \cdot \frac{8}{3} = \frac{42}{9}$

C $\frac{11}{7} \cdot \frac{3}{3} = \frac{33}{21}$

D $\frac{5}{32} \cdot \frac{3}{3} = \frac{15}{96}$

E)

$\frac{85}{7} \cdot \frac{3}{3} = \frac{255}{21}$

7

a $\frac{7}{5} = \frac{12}{5}$

b

8

a V

B. F

C. F

D. F

e. V

F. F

G. F

H. V

i. F

J. F