Maykol slick García Durango. 1

1)

-a. $\frac{5}{4}+\frac{3}{4}\cdot\frac{1}{6}$

• $R=\frac{1}{6}\times\frac{3}{4}=\frac{3}{24}+\frac{5}{4}=\frac{12+120}{96}=\frac{132}{96}\rightarrow\frac{66}{46}\rightarrow\frac{33}{24}\rightarrow\frac{11}{8}$

-B. $\frac{2}{9}-\frac{5}{6}=\frac{4}{3}$

• $R=\frac{5}{6}\times\frac{4}{3}=\frac{15}{24}\ \frac{2}{9}-\frac{15}{24}=\frac{48-135}{216}-\frac{87}{216}=\frac{29}{72}$

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

• $R=\frac{17}{20}-\frac{1}{1}=\frac{17-20}{20}=-\frac{3}{20}\ ;\ \frac{1}{3}-\frac{3}{1}=\frac{1-3}{3}=-\frac{2}{3}$

• $-\frac{31}{20}\cdot\frac{2}{3}=\frac{6}{60}=\frac{1}{10}\ ;\ \frac{3}{1}-\frac{3}{5}-\frac{1}{10}=\frac{30-6-1}{10}=\frac{23}{10}$

• $-\frac{3}{8}+\frac{23}{10}=\frac{-30+184}{80}=\frac{154}{80}=\frac{77}{40}=\frac{46}{20}=\frac{23}{10}$

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

• $R=\frac{4}{3}+\frac{2}{1}=\frac{6+4}{3}=\frac{10}{3}\div\frac{7}{3}=\frac{30}{21}=\frac{10}{7}\ ;\frac{5}{12}\cdot\frac{10}{7}=\frac{35-120}{84}$

$\frac{85}{84}=\frac{85}{84}$

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- e. $\frac{3}{8} - \frac{5}{6} = \frac{4}{3} + \frac{2}{9} \cdot \frac{27}{9}$

- R/ $\frac{2}{9}\frac{27}{9} = \frac{54}{81} = \frac{18}{27} = \frac{6}{9} = \frac{2}{3}$

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

- $\frac{3}{8} + \frac{1}{24} = \frac{72+8}{192} = \frac{80}{192} = \frac{40}{96} = \frac{20}{48} = \frac{10}{24} = \frac{5}{12}$

F $\frac{11}{6} : \frac{5}{2} = \frac{30}{22} = \frac{30}{22}\ \frac{15}{11} = \frac{11}{15} - \frac{7}{25} = \frac{215-105}{375} = \frac{170}{375}$

$= \frac{34}{75}$

g $\frac{5}{36} - \left(\frac{7}{16} + \frac{1}{4} : \frac{3}{5}\right)$

R $\frac{1}{4} : \frac{3}{5} = \frac{5}{12} = \frac{7}{16} + \frac{5}{12} = \frac{80+84}{192} = \frac{164}{192} = \frac{82}{96} = \frac{41}{46}$

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

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

R/ $\frac{60}{45} - \frac{17}{12} = \frac{12}{9} - \frac{17}{12} = \frac{144-153}{108}$ $\frac{-9}{108} = \frac{-3}{36} = \frac{1}{12}$

$-\frac{1}{12} + \frac{7}{24} = \frac{-2+7}{24} = \frac{5}{24}$

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2.

a. $\frac{7}{5} = 1\frac{2}{5}$ b $\frac{14}{3} = 4\frac{2}{3}$ c $\frac{11}{7} = 1\frac{4}{7}$

d. $\frac{351}{32} = 10\frac{31}{32}$ e $\frac{85471}{317} = 27\frac{12}{371}$

3.

a $1\frac{7}{8} = \frac{15}{8}$ c. $2\frac{1}{7} = \frac{15}{7}$ e. $5\frac{2}{9} = \frac{47}{9}$.

b. $3\frac{14}{15} = \frac{54}{15}$. D $4\frac{5}{32} = \frac{133}{32}$

4. Datos

1 caja de 1024 electrodos

1) 6011 x 1/8, 7018 x 1/8, 6013 x 1/8 y 3082 x 1/8

- 5/32 = 6011 x 1/8
- 3/8 = 7018 x 1/8 = 12/32 = 7018 x 1/8
- 1/4 = 6013 x 1/8 8/32 = 6013 x 1/8

$= \frac{5}{32} + \frac{12}{32} + \frac{8}{32} = \frac{25}{32}$.

a $\frac{32}{32} - \frac{25}{32} = \frac{7}{32}$.

b "6011 x 1/8" = 5/32

"7018 x 1/8" = 12/32

"6013 x 1/8" = 8/32

"308 x 1/8" = 7/32.

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5.) DaTos 100

SMAW = 11/50. = 32/180 = $\frac{22}{100}$

SAW = 1/2 SMAW = $\frac{22}{100} \div 2 = \frac{22}{100} \div \frac{2}{1} = \frac{22}{100} = \frac{11}{100}$

GMAW = 3 SOM = $\frac{11}{100} \times 3 = \frac{33}{100}$

GTAW = 1/5 = $\frac{20}{100}$

FCAW = $\frac{86}{100} \times \frac{100}{100} = \frac{14}{100}$

6.) a = $\frac{7}{5} = \frac{14}{10}$ (fracción Amplificada x2)

B = $\frac{14}{3} = \frac{28}{6}$ (fracción Amplificada x2)

C = $\frac{11}{7} = \frac{22}{14}$ (fracción Amplificada x2)

D = $\frac{5}{32} = \frac{15}{96}$ (fracción Amplificada x2)

e = $\frac{85}{7} = \frac{170}{14}$ (fracción Amplificada x2)

7.)

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

B $\frac{14}{3} = \frac{42}{3}$

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

D. $\frac{5}{32} = \frac{10}{64}$

e. $\frac{86}{7} = 12\ \frac{1}{7}$

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8.

a $\frac{7}{5} = \frac{63}{45}$ (V) $7 \times 9 = 63$ $5 \times 9 = 45$

b $\frac{14}{3} > \frac{14}{2}$ (F) $\frac{14}{2} = 7$ $\frac{14}{3}$ $4\frac{2}{3}$

c $\frac{11}{7} < \frac{7}{11}$ (F) $2\frac{4}{7} > \frac{7}{11}$

d $\frac{5}{32} = \frac{32}{5}$ (F) $\frac{5}{32} \neq \frac{32}{5}$

e $\frac{5}{7} \geq \frac{5}{32}$ (V) $\frac{5}{7} > \frac{5}{32}$

F $\frac{8}{10} = \frac{10}{9}$ (F) $\frac{8}{10} \neq \frac{10}{9}$

G $\frac{14}{3} < \frac{1}{2}$ (F) $4\frac{2}{3} \not< \frac{1}{2}$

H $\frac{10}{7} > \frac{7}{11}$ (V) $7\frac{3}{7} > \frac{1}{14}$

I $\frac{5}{2} \leq \frac{3}{5}$ (F) $2\frac{1}{2} > \frac{3}{5}$

J $\frac{5}{7} = \frac{5}{32} =$ (F) $\frac{5}{7} \not< \frac{5}{32}$

$\frac{5}{7} > \frac{5}{32}$