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1.

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

• $K = \frac{1}{6} \times \frac{3}{4} = \frac{3}{24} + \frac{5}{4} = \frac{12+120}{96} = \frac{132}{96} \rightarrow \frac{66}{48} \rightarrow \frac{33}{24} \rightarrow \boxed{\frac{11}{8}}$

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

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

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

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

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

• $-\frac{3}{8} + \frac{23}{10} = \frac{-30+184}{80} = \frac{154}{80} = \boxed{\frac{77}{40}} = \frac{416}{20} = \frac{83}{10}$

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

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

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

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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. $\frac{11}{6} : \frac{5}{2} = \frac{30}{22} = \frac{30}{22} \frac{15}{11} = \frac{11}{15} - \frac{7}{25} = \frac{275-105}{375} = \frac{170}{375}$

$= \frac{34}{75}$

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

R= $\frac{1}{4} : \frac{3}{5} = \frac{5}{12} = \frac{7}{16} + \frac{5}{12} = \frac{80+84}{192} = \frac{164}{192} \frac{82}{96} = \frac{41}{48}$

$= \frac{5}{36} - \frac{41}{48} = \frac{230-1476}{1656} = -\frac{1246}{1656} = -\frac{623}{828}$

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

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

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

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

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. $3\frac{14}{15} = \frac{59}{15}$ d. $4\frac{5}{32} = \frac{133}{32}$

4.

Datos:

1 caja de 1024 electrodes

1) 6011 x 1/8, 7018 x 1/8, 6013 x 1/8 y 3081 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. = 22/100 = $\frac{22}{100}$

SAW = 1/2 SMAW = $\frac{22}{100} \div 2 = \frac{22}{100} \div \frac{2}{1} = \frac{22}{200} = \frac{11}{100}$

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

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

FCAW = $-\frac{86}{100} + \frac{100}{100} = \frac{14}{100}$

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 x3)

e = $\frac{85}{7} = \frac{170}{14}$ (Fraccion amplificada x2)

7.

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

e. $\frac{85}{7} = 12\frac{1}{7}$

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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) $1\frac{3}{7} > \frac{7}{11}$

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

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

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