

## Correcção da Ficha de trabalho - Frações

1.- a)  $\frac{9}{25}$       b)  $\frac{3}{5}$       c)  $\frac{1}{2}$       d)  $\frac{3}{8}$       e)  $\frac{6}{8} = \frac{3}{4}$       f)  $\frac{5}{8}$

2.- a) i)  $\frac{200}{100}; \frac{40}{40}; \frac{135}{45}$

ii)  $\frac{13}{20}; \frac{26}{40}; \frac{10}{2001}; \frac{100}{200}$

iii)  $\frac{40}{40}$

iv)  $\frac{13}{20} = \frac{26}{40}$

v)  $\frac{13}{20}; \frac{327}{102}; \frac{102}{99}; \frac{100}{2001}; \frac{201}{100}$

b)  $\frac{200}{100} = 2$

$\frac{26}{40} = \frac{13}{20}$

$\frac{40}{40} = 1$

$\frac{135}{45} = 3$

$\frac{100}{200} = \frac{1}{2}$

c)  $\frac{100}{2001} < \frac{100}{200} < \frac{13}{20} < \frac{40}{40} < \frac{102}{99} < \frac{200}{100} < \frac{201}{100} < \frac{135}{45} < \frac{327}{102}$

3.- a)  $\frac{1}{3} + \frac{5}{6} + \frac{4}{1} = \frac{2}{6} + \frac{5}{6} + \frac{24}{6} = \frac{31}{6}$

b)  $\frac{1}{2} - \frac{1}{4} + \frac{19}{20} = \frac{10}{20} - \frac{5}{20} + \frac{19}{20} = \frac{24}{20} = \frac{6}{5}$

c)  $\frac{5}{1} - \left(\frac{1}{3} + \frac{5}{6}\right) = \frac{30}{6} - \left(\frac{2}{6} + \frac{5}{6}\right) = \frac{30}{6} - \frac{7}{6} = \frac{23}{6}$

d)  $\frac{3}{1} - \left(\frac{1}{2} + \frac{3}{4}\right) + \frac{5}{1} + \left(\frac{3}{1} - \frac{1}{2}\right) - \frac{17}{4} = \frac{12}{4} - \frac{5}{4} + \frac{20}{4} + \frac{10}{4} - \frac{17}{4} = \frac{7}{4} + \frac{20}{4} + \frac{10}{4} - \frac{17}{4} = \frac{37}{4} - \frac{17}{4} = \frac{20}{4} = 5$

e)  $\frac{1}{1} - \left(\frac{1}{3} + \frac{1}{2}\right) + \frac{7}{1} - \left(\frac{3}{10} - \frac{1}{10}\right) - \frac{1}{3} = \frac{150}{30} - \left(\frac{10}{30} + \frac{15}{30}\right) + \frac{210}{30} - \left(\frac{9}{30} - \frac{3}{30}\right) - \frac{10}{30} = \frac{150}{30} - \frac{25}{30} + \frac{210}{30} - \frac{6}{30} - \frac{10}{30} = \frac{125}{30} + \frac{210}{30} - \frac{6}{30} - \frac{10}{30} = \frac{335-6-10}{30} = \frac{229-10}{30} = \frac{219}{30} = \frac{73}{10}$

f)  $\left(\frac{5}{6} - \frac{3}{4}\right) + \left(\frac{1}{3} - \frac{1}{4}\right) = \left(\frac{10}{12} - \frac{9}{12}\right) + \left(\frac{4}{12} - \frac{3}{12}\right) = \frac{1}{12} + \frac{1}{12} = \frac{2}{12} = \frac{1}{6}$

g)  $\frac{1}{20} + \left(\frac{1}{2} - \frac{1}{3}\right) + \frac{5}{1} - \left(\frac{1}{2} + \frac{1}{5}\right) + \frac{2}{10} = \frac{3}{30} + \left(\frac{15}{30} - \frac{10}{30}\right) + \frac{150}{30} - \left(\frac{15}{30} + \frac{6}{30}\right) + \frac{6}{30} = \frac{3}{30} + \frac{5}{30} + \frac{150}{30} - \frac{9}{30} + \frac{6}{30} = \frac{158}{30} - \frac{9}{30} + \frac{6}{30} = \frac{149}{30} + \frac{6}{30} = \frac{155}{30} = \frac{31}{6}$

4.-  $\frac{9}{5}; \frac{16}{5}$        $\frac{21}{7}; \frac{18}{7}$   
 $\frac{9}{5}$        $\frac{6}{7}$   
 $\frac{4}{5}; \frac{3}{5}$        $\frac{9}{7}; \frac{7}{7}$

5.- a)  $20 \times \frac{1}{4} = \frac{20}{4} = 5 \text{ peras} - \text{Pepe}$

$20 \times \frac{2}{5} = \frac{40}{5} = 8 \text{ peras} - \text{Alex}$

R: Alex

b) Que parte das peras da Lili compraram o Pepe e o Alex?

d)  $20 \times \left(\frac{1}{4} + \frac{2}{5}\right) = 20 \times \left(\frac{5}{20} + \frac{8}{20}\right) = 20 \times \frac{13}{20} = 13$

R: Sobram 7 peras.

e)  $\frac{1}{1} - \frac{1}{4} + \frac{2}{5} = \frac{20}{20} - \frac{5}{20} + \frac{8}{20} = \frac{15+8}{20} = \frac{23}{20}$

6.- a) i) Peso das bananas e das peras

ii) Peso das maçãs e das castanhas.

b) Pesavam a mesma coisa  $\frac{10}{4} = 2,5 \text{ kg}$

c)  $\frac{4}{5} = 0,8 \text{ kg}$  As Peras. Mais  $1,7 \text{ kg}$

$2,5 - 0,8 = 1,7 \text{ kg}$

d)  $\frac{4}{5} + \frac{25}{10} + \frac{10}{4} + \frac{1}{2} = \frac{16+50+50+10}{20} = \frac{126}{20} = 6,3 \text{ kg}$