EXAMEN 2ª EV. 6º ep 12/03/18

(1) a)

15 | 3	25 | 5	35 | 5
5 | 5	5 | 5	7 | 7
1 |	1 |	1 |

$15 = 3 \cdot 5$

$25 = 5^2$

$35 = 5 \cdot 7$

$mcm = 3 \cdot 5^2 \cdot 7 = 21 \cdot 25 = \boxed{525}$

b)

9 | 3	18 | 2	60 | 2
3 | 3	9 | 3	30 | 2
1 |	3 | 3	15 | 3
	1 |	5 | 5
		1 |

$9 = 3^2$

$18 = 2 \cdot 3^2$

$60 = 2^2 \cdot 3 \cdot 5$

$mcm = 2^2 \cdot 3^2 \cdot 5 = \boxed{180}$

(2) a) $\frac{20\not{0}}{15\not{0}} = \boxed{\frac{4}{3}}$

(3) a) $\frac{10}{7} + \frac{20}{8} = \frac{80+140}{56} = \frac{220}{56} = \frac{110}{28} = \boxed{\frac{55}{14}}$

b) $\frac{4\not{0}}{5\not{0}} : \frac{5\not{0}}{1\not{0}} = \boxed{\frac{4}{25}}$

c) $\frac{12\not{0}}{3\not{0}} + \frac{11\not{0}}{3\not{0}} + \frac{20\not{0}}{3\not{0}} = \frac{12+11+20}{3} = \boxed{\frac{43}{3}}$

d) $\left(\frac{50}{25} - \frac{30}{25}\right) \cdot \frac{4}{5} = \frac{20}{25} \cdot \frac{4}{5} = \frac{80}{125} = \boxed{\frac{16}{25}}$

e) $\frac{5}{4} + \frac{2}{5} - \frac{3}{10} = \frac{25+8-6}{20} = \frac{33-6}{20} = \boxed{\frac{27}{20}}$

$4 = \boxed{2^2}$
$5 = \boxed{5}$
$10 = 2 \cdot 5$
$mcm = 2^2 \cdot 5 = 20$

f) $\frac{60}{3} \cdot \frac{2}{10} + \frac{4}{5} = \frac{12\cancel{0}}{3\cancel{0}} + \frac{4}{5} = \frac{4}{1} + \frac{4}{5} =$

$= \frac{20+4}{5} = \boxed{\frac{24}{5}}$

g) $\frac{5}{60}$ de 120 $\begin{cases} 12\cancel{0} : 6\cancel{0} = 2 \\ 2 \times 5 = \boxed{10} \end{cases}$

(4) a)
$$\begin{array}{r} 245'060 \\ + \quad 2'36 \\ \quad\quad 0'008 \\ \hline 247'428 \end{array}$$

b)
$$\begin{array}{r} 154.725'4 \\ - \; 68.957'007 \\ \hline 85.768'393 \end{array}$$

c)
$$\begin{array}{r} 250'154 \\ \times \; 4'75 \\ \hline 1250770 \\ + \; 1751078 \\ \quad 100616 \\ \hline 1.188'23150 \end{array}$$

d)
$$\begin{array}{r|l} 98'457 & 9 \\ 084 & 10'939 \\ \quad 35 & \\ \quad\; 87 & \\ \quad\; 6 & \end{array}$$

(4)

e)
$$\begin{array}{r|l} 45^{\times}56'78 & 4^{\times}67 \\ 3\,537 & 9'75 \\ 2\,688 & \\ 353 & \end{array}$$

f)
$$\begin{array}{r|l} 56.78900 & 5^{\times}75 \\ 5039 & 9876 \\ 4390 & \\ 3650 & \\ 200 & \end{array}$$

(5)

$\frac{4}{10}$ de 100 $\begin{cases} 10\text{¢} : 1\text{¢} = 10 \\ 10 \times 4 = (40) \text{ son rojos} \end{cases}$

$\frac{3}{10}$ de 100 $\begin{cases} 10\text{¢} : 1\text{¢} = 10 \\ 10 \times 3 = (30) \text{ son verdes} \end{cases}$

$\frac{19}{100}$ de 100 $\begin{cases} 100 : 100 = 1 \\ 1 \times 19 = (19) \text{ son amarillos} \end{cases}$

$\frac{11}{100}$ son blancos.