

# Tema 2.6

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1. a)  $23 : 5 = 4,6$
- b)  $83 : 4 = 20,75$
- c)  $12 : 20 = 0,6$
- d)  $3 : 25 = 0,12$
- e)  $1859 : 50 = 37,18$
- f)  $472 : 125 = 3,776$
- g)  $731 : 200 = 3,655$
- h)  $64 : 1000 = 0,064$
- i)  $259 : 250 = 1,036$
- j)  $724 : 625 = 1,1584$
- k)  $437 : 160 = 2,73125$
- l)  $6000 : 3125 = 1,92$

$$\begin{array}{r} 12 \overline{) 20} \\ \underline{0} \\ 120 \\ \underline{120} \\ == \end{array}$$

$$\begin{array}{r} 3 \overline{) 25} \\ \underline{0} \\ 30 \\ \underline{25} \\ = 50 \\ \underline{50} \\ = \end{array}$$

$$2. \quad \frac{8}{10} = 0,8$$

$$\frac{8}{100} = 0,08$$

$$\frac{23}{5} = 4,6$$

$$\frac{41}{2} = 20,5$$

$$\frac{17}{4} = 4,25$$

$$\frac{23}{1000} = 0,023$$

$$\begin{array}{r} 23 \overline{) 5} \\ \underline{20} \\ = 30 \\ \underline{30} \\ = \end{array}$$

$$\begin{array}{r} 41 \overline{) 2} \\ \underline{4} \\ = 10 \\ \underline{10} \\ = \end{array}$$

$$\begin{array}{r} 17 \overline{) 4} \\ \underline{16} \\ = 10 \\ \underline{8} \\ = 20 \end{array}$$

$$\frac{47838}{500} = 95,676$$

$$\frac{76}{25} = 3,04$$

$$\frac{68309}{125} = 546,472$$

$$\frac{43}{625} = 0,0688$$

3.  $\frac{5}{3} = 1,(6)$

$$\frac{14}{3} = 4,(6)$$

$$\frac{22}{3} = 7,(3)$$

$$\frac{11}{9} = 1,(2)$$

$$\frac{29}{9} = 3,(2)$$

$$\frac{173}{9} = 19,(2)$$

$$\frac{2}{9} = 0,(2)$$

$$\frac{31}{27} = 1,(148)$$

$$\frac{100}{27} = 3,(703)$$

4.  $\frac{7}{6} = 1,1(6)$

$$\frac{37}{15} = 2,4(6)$$

$$\begin{array}{r} 5 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \underline{3} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ 20 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \underline{18} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ =20 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \underline{18} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ =2 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \end{array}$$

$$\begin{array}{r} 11 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \underline{9} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ =20 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \underline{18} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ =20 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \underline{18} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ =2 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \end{array}$$

$$\begin{array}{r} 31 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \underline{27} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ =40 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \underline{27} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ 130 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \underline{108} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ =220 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \underline{216} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ =40 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \underline{27} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ 13 \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \end{array}$$

$$\frac{44}{24} = 1,8(3)$$

$$\frac{178}{75} = 2,37(3)$$

$$\frac{52}{45} = 1,1(5)$$

$$\frac{25}{12} = 2,08(3)$$

$$\frac{127}{75} = 1,69(3)$$

$$\frac{44}{30} = 1,4(6)$$

$$\begin{array}{r} 52 \quad | \quad 45 \\ \underline{45} \quad | \quad 1,155 \\ =70 \\ \underline{45} \\ 250 \\ \underline{225} \\ =250 \\ \underline{225} \\ =25 \end{array}$$

$$\begin{array}{r} 44 \quad | \quad 30 \\ \underline{30} \quad | \quad 1,466 \\ 140 \\ \underline{120} \\ =200 \\ \underline{180} \\ =200 \\ \underline{180} \\ =20 \end{array}$$

$$\begin{array}{r} 127 \quad | \quad 75 \\ \underline{75} \quad | \quad 1,6933 \\ 520 \\ \underline{450} \\ =700 \\ \underline{675} \\ =250 \\ \underline{225} \\ =250 \\ \underline{225} \\ =25 \end{array}$$

5. a)  $0,7 = \frac{7}{10}$

$$0,2 = \frac{2}{10}$$

$$5,3 = \frac{53}{10}$$

$$7,21 = \frac{721}{100}$$

$$8,473 = \frac{8473}{1000}$$

$$15,29 = \frac{1529}{100}$$

$$4,279 = \frac{4279}{1000}$$

$$8,478 = \frac{8478}{1000}$$

$$125,63 = \frac{12563}{100}$$

b)  $6,(3) = 6\frac{3^{13}}{9} = 6\frac{1}{3}$

$$2,(5) = 2\frac{5}{9}$$

$$13,(7) = 13\frac{7}{9}$$

$$125,(8) = 125\frac{8}{9}$$

$$0,(29) = \frac{29}{99}$$

$$4,(37) = 4\frac{37}{99}$$

$$125,(106) = 125\frac{106}{999}$$

$$29,(471) = 29\frac{471}{999}$$

$$c) 1,4(2) = 1 \frac{42-4}{90} = 1 \frac{38^{(2)}}{90} = 1 \frac{19}{45}$$

$$0,2(7) = \frac{27-2}{90} = \frac{25^{(5)}}{90} = \frac{5}{18}$$

$$4,6(5) = 4 \frac{65-6}{90} = 4 \frac{59}{90}$$

$$8,23(7) = 8 \frac{237-23}{900} = 8 \frac{214^{(2)}}{900} = 8 \frac{107}{450}$$

$$16,14(35) = 16 \frac{1435-14}{9900} = 16 \frac{1421}{9900}$$

$$200,79(125) = 200 \frac{79125-79}{99900} = 200 \frac{79046^{(2)}}{99900} = 200 \frac{39523}{49950}$$

$$6. a) 5,7 = \frac{57}{10}$$

$$0,007 = \frac{7}{1000}$$

$$8,25 = \frac{825}{100}$$

$$93,308 = \frac{93308}{1000}$$

$$3,137 = \frac{3137}{1000}$$

$$4,0258 = \frac{40258}{10000}$$

$$23,23 = \frac{2323}{100}$$

$$34,29856 = \frac{3429856}{100000}$$

$$405,08 = \frac{40508}{100}$$

$$b) 9,5) = \frac{95-9}{9} = \frac{86}{9}$$

$$0,6) = \frac{6^3}{9} = \frac{2}{3}$$

$$8,(21) = \frac{821-8}{99} = \frac{813^3}{99} = \frac{271}{33}$$

$$13,(51) = \frac{1351-13}{99} = \frac{1338^3}{99} = \frac{446}{33}$$

$$49,(237) = \frac{49237-49}{999} = \frac{49188^3}{999} = \frac{16396}{333}$$

$$105,(41) = \frac{10541-105}{99} = \frac{10436}{99}$$

$$206,(73) = \frac{20673-206}{99} = \frac{20467}{99}$$

$$206,(703) = \frac{206703-206}{999} = \frac{206497}{999}$$

$$c) 4,2(3) = \frac{423-42}{90} = \frac{381^3}{90} = \frac{127}{30}$$

$$5,12(8) = \frac{5128-512}{900} = \frac{4616}{900}$$

$$9,9(71) = \frac{9671-96}{990} = \frac{9575^{15}}{990} = \frac{1915}{198}$$

$$11,56(23) = \frac{115623-1156}{9900} = \frac{114467}{9900}$$

$$109,3(405) = \frac{1093405 - 1093}{9990} = \frac{1092312^{19}}{9990} = \frac{121368^{12}}{1110} = \frac{60684}{555}$$

$$0,29(978) = \frac{29978 - 29}{99900} = \frac{29949^{13}}{99900} = \frac{9983}{33300}$$

$$2,88(0985) = \frac{2880985 - 288}{999900} = \frac{2880697}{999900}$$