

## Decimales

11 d. 1.1 a)  $15/20 = 0,75$

## Racionales

11 d. 1.2 a)  $1, \overline{222}$

$$x = 1, \overline{222}$$

$$1000x = 1, \overline{222} \cdot 1000$$

$$1000x = 1222, \overline{222}$$

$$x = 1, \overline{222}$$

$$x = \frac{1221}{999}$$

$$999x = 1221$$

$$11 \text{ d13 c) } \left(0,5\bar{4} + \frac{3}{5}\right)^2$$

$$\underline{0,108}$$

$$x = 0,5\bar{4}$$

$$10x = 5,4$$

$$100x = 54,4$$

$$\underline{100x = 54,4}$$

$$10x = 5,4$$

$$90x = 49$$

$$x = \frac{49}{90}$$

$$\left(\frac{49}{90} + \frac{3}{5}\right)^2$$

$$\frac{49}{90}$$

$$\underline{49}$$

$$450$$

$$\left(\frac{49}{90} + 3,1\bar{8}\right)^2$$

$$\frac{49}{90}$$

$$\underline{49}$$

$$450$$

$$x = 0,10\bar{8}$$

$$100x = 10,8$$

$$\underline{1000x = 108,8}$$

$$1000x = 108,8$$

$$100x = 10,8$$

$$900x = 98$$

$$x = \frac{98}{900} = \frac{49}{450}$$

$$\left(\frac{49}{90} + 54\right)^2$$

$$\frac{49}{90}$$

$$\underline{49}$$

$$450$$

$$\left(\frac{103}{90}\right)^2 \cdot \frac{450}{49} = \frac{103 \cdot 103 \cdot 450}{90 \cdot 90 \cdot 49} = \frac{10609}{882}$$

$$18,3$$

$$\textcircled{d} \sqrt[3]{0,8}$$

$$(0,00\bar{7})^3$$

$$x = 0,8$$

$$10x = 0,8 \cdot 10$$

$$10x = 8,8$$

$$x = 0,8$$

$$9x = \frac{8}{9}$$

$$x = 0,00\bar{7}$$

$$100x = 0,7$$

$$1000x = 7,7$$

$$1000x = 7,7$$

$$100x = 0,7$$

$$900x = 7$$

$$x = \frac{7}{900}$$

$$\sqrt[3]{\frac{8}{9}}$$

$$\left(\frac{7}{900}\right)^3$$

$$\sqrt[3]{\frac{8}{3^2 \cdot \left(\frac{7}{900}\right)^3}}$$

$$\sqrt[3]{\frac{8}{3^2 \cdot \frac{7^3}{30^6}}}$$



$$\sqrt[3]{\frac{8}{3^2 \cdot 7^3}} = \frac{10^6 \cdot 3^6}{10^6 \cdot 3^6}$$

$$\sqrt[3]{\frac{8}{7^3}}$$

$$\frac{10^6 \cdot 3^4}{10^6 \cdot 3^4}$$

$$\sqrt[3]{\frac{8 \cdot 10^6 \cdot 3^4}{7^3}}$$

$$\sqrt[3]{648 \cdot 10^6}$$

$$\sqrt[3]{343}$$

$$\sqrt[3]{18 \cdot 10^3 \sqrt[3]{2}}$$

$$18 \cdot 1000 \sqrt[3]{2}$$

$$18000 \sqrt[3]{2}$$

$$7 \sqrt[3]{7}$$

$$\sqrt[3]{7}$$

$$18000 \sqrt[3]{2} \sqrt[3]{7}$$

$$7 \sqrt[3]{7} \sqrt[3]{7}$$

$$18000 \sqrt[3]{14}$$

$$7 \cdot 7$$

$$18000 \sqrt[3]{14}$$

$$49$$

11 a. 1. 4.

$$\textcircled{c} - \frac{3}{4} \cdot \left[ \frac{4}{3} \left( \frac{1}{2} \cdot \frac{1}{3} \right) + \frac{2}{7} \right]$$

$$- \frac{3}{4} \cdot \left[ \frac{4}{3} \left( \frac{1}{6} \right) + \frac{2}{7} \right]$$

$$- \frac{3}{4} \cdot \left[ \frac{4 \cdot 2}{18 \cdot 9} + \frac{2}{7} \right]$$

$$- \frac{3}{4} \cdot \left[ \frac{2}{9} + \frac{2}{7} \right]$$

$$= \frac{3}{4} \cdot \frac{328}{6821} = - \frac{8}{21}$$

$$9) 8 - \frac{2}{5} - \frac{1}{9} + \frac{1}{21} \left( \frac{9}{4} - \frac{2}{5} \right)$$

calcular extra

$$8 - \frac{13}{45} + \frac{1}{21} \times \frac{37}{20}$$

$$\frac{2}{5} = \frac{2 \cdot 9}{5 \cdot 9} = \frac{18}{45}$$

$$\frac{1}{9} = \frac{1 \cdot 5}{9 \cdot 5} = \frac{5}{45}$$

$$8 - \frac{13}{45} - \frac{7}{6} + \frac{37}{420}$$

$$\frac{2}{5} - \frac{1}{9} = \frac{18}{45} - \frac{5}{45} = \frac{13}{45}$$

$$8 - \frac{13.6}{45.7} + \frac{37}{420}$$

$$\frac{13}{45}$$

$$\frac{78}{315}$$

$$\left( \frac{9-2}{9 \cdot 5} \right)$$

$$8 - \frac{26}{105} + \frac{37}{420}$$

$$\frac{9.5 - 2.4}{4.5}$$

$$8 - \frac{26.4}{105.4} + \frac{37}{420}$$

$$\frac{45 - 8}{20}$$

$$8 - \frac{104}{420} + \frac{37}{420}$$

$$\frac{37}{20}$$

$$8 - \frac{67}{420}$$

105	420	5
21	84	3
7	28	7
1	4	4

$$\frac{8 \cdot 420}{420}$$

$$\frac{1}{8}$$

$$\frac{3360}{420} - \frac{67}{420} = \frac{3360 - 67}{420} = \frac{3293}{420}$$

$$mcm = 420$$