

SPREMINJANJE PERIODIČNEGA DECIMALNEGA ŠTEVILA V ULOMEK

Žapiši iz okrajšanim ulomkom.

1. $3,\bar{2}$

$$\begin{array}{r} a = 3,\bar{2} \quad / \cdot 10 \\ 10a = 32,\bar{2} \end{array} \quad \begin{array}{l} \curvearrowright - \\ \text{množiš iz 10, ker se} \\ \text{ponavlja ena decimalka} \end{array}$$

$$\begin{array}{r} 9a = 29 \\ a = \frac{29}{9} \end{array} \quad 3,\bar{2} = \underline{\underline{\frac{29}{9}}}$$

2. $0,\bar{3}$

$$\begin{array}{r} a = 0,\bar{3} \quad / \cdot 10 \\ 10a = 3,\bar{3} \end{array} \quad \begin{array}{l} \curvearrowright - \\ \end{array}$$

$$\begin{array}{r} 9a = 3 \\ a = \frac{3:3}{9:3} = \frac{1}{3} \end{array} \quad 0,\bar{3} = \underline{\underline{\frac{1}{3}}}$$

3. $8,\bar{7}$

$$\begin{array}{r} a = 8,\bar{7} \quad / \cdot 10 \\ 10a = 87,\bar{7} \end{array}$$

$$\begin{array}{r} 9a = 79 \\ a = \frac{79}{9} \end{array} \quad 8,\bar{7} = \underline{\underline{\frac{79}{9}}}$$

4. $5,\bar{45}$

$$\begin{array}{r} a = 5,\bar{45} \quad / \cdot 100 \\ 100a = 545,\bar{45} \end{array} \quad \begin{array}{l} \curvearrowright - \\ \text{ker se ponavljata 2 decimalki} \end{array}$$

$$\begin{array}{r} 99a = 540 \\ a = \frac{540:9}{99:9} = \frac{60}{11} \end{array}$$

5. $0,\overline{79}$

$$\begin{array}{l} a = 0,\overline{79} \quad / \cdot 100 \\ 100a = 79,\overline{79} \end{array}$$

$$\begin{array}{l} 99a = 79 \\ a = \frac{79}{99} \end{array}$$

$$0,\overline{79} = \frac{79}{99}$$



6. $3,\overline{742}$

$$\begin{array}{l} a = 3,\overline{742} \quad / \cdot 1000 \\ 1000a = 3742,\overline{742} \end{array}$$

$$\begin{array}{l} 999a = 3739 \\ a = \frac{3739}{999} \end{array}$$

$$3,\overline{742} = \frac{3739}{999}$$

ker se ponavljajo tri

7. $0,0\overline{4}$

$$\begin{array}{l} a = 0,0\overline{4} \quad / \cdot 10 \\ 10a = 0,\overline{4} \quad / \cdot 10 \\ 100a = 4,\overline{4} \end{array}$$

$$\begin{array}{l} 90a = 4 \\ a = \frac{4:2}{90:2} = \frac{2}{45} \end{array}$$

$$0,0\overline{4} = \frac{2}{45}$$

šterka, ki se ponavlja,
mora biti takoj za vejico

8. $2,1\overline{7}$

$$\begin{array}{l} a = 2,1\overline{7} \quad / \cdot 10 \\ 10a = 21,\overline{7} \quad / \cdot 10 \\ 100a = 217,\overline{7} \end{array}$$

$$\begin{array}{l} 90a = 196 \\ a = \frac{196:2}{90:2} = \frac{98}{45} \end{array}$$

$$2,1\overline{7} = \frac{98}{45}$$

9. $1,3\bar{6}$

$$\begin{aligned} a &= 1,3\bar{6} \quad / \cdot 10 \\ 10a &= 13,\bar{6} \quad / \cdot 10 \\ 100a &= 136,\bar{6} \end{aligned}$$

$$90a = 123$$

$$a = \frac{123 : 3}{90 : 3} = \frac{41}{30}$$

$$1,3\bar{6} = \frac{41}{30}$$

10. $1,1\bar{04}$

$$\begin{aligned} a &= 1,1\bar{04} \quad / \cdot 10 \\ 10a &= 11,\bar{04} \quad / \cdot 100 \\ 1000a &= 1104,\bar{04} \end{aligned} \quad \begin{array}{l} \curvearrowright \\ - \end{array}$$

$$990a = 1093$$

$$a = \frac{1093}{990}$$

$$1,1\bar{04} = \frac{1093}{990}$$

znamza5si


11. $4,8\bar{13}$

$$\begin{aligned} a &= 4,8\bar{13} \quad / \cdot 10 \\ 10a &= 48,\bar{13} \quad / \cdot 100 \\ 1000a &= 4813,\bar{13} \end{aligned}$$

$$990a = 4765$$

$$a = \frac{4765 : 5}{990 : 5} = \frac{953}{198}$$

$$4,8\bar{13} = \frac{953}{198}$$

12. $1,1\bar{221}$

$$\begin{aligned} a &= 1,1\bar{221} \quad / \cdot 10 \\ 10a &= 11,\bar{221} \quad / \cdot 1000 \\ 10000a &= 11221,\bar{221} \end{aligned} \quad \begin{array}{l} \curvearrowright \\ - \end{array}$$

$$9990a = 11210$$

$$a = \frac{11210 : 10}{9990 : 10} = \frac{1121}{999}$$

$$1,1\bar{221} = \frac{1121}{999}$$

13. $4,32\bar{8}$

$$\begin{aligned} a &= 4,32\bar{8} \quad / \cdot 100 \\ 100a &= 432,\bar{8} \quad / \cdot 10 \\ 1000a &= 4328,\bar{8} \end{aligned}$$

$$\begin{aligned} 900a &= 3896 \\ a &= \frac{3896 : 4}{900 : 4} = \frac{974}{225} \end{aligned}$$

$$4,32\bar{8} = \frac{974}{225}$$

14. $0,312\bar{8}$

$$\begin{aligned} a &= 0,312\bar{8} \quad / \cdot 100 \\ 100a &= 31,\bar{28} \quad / \cdot 100 \\ 10000a &= 3128,\bar{28} \end{aligned}$$

$$\begin{aligned} 9900a &= 3097 \\ a &= \frac{3097}{9900} \end{aligned}$$

$$0,312\bar{8} = \frac{3097}{9900}$$



Še več rešenih primerov najdeš v knjigi

Rešene matematične naloge za 1. letnik

