



Schreiben Sie jede sich unendlich wiederholende Dezimalzahl in eine rationale Zahl (Bruch) um.

1) $0,55\overline{135}$

2) $0,30\overline{41}$

3) $35,1\overline{39}$

4) $5,7\overline{4}$

5) $8,151\overline{51}$

6) $5,545\overline{9}$

7) $6,41\overline{32}$

8) $3,28\overline{9}$

9) $0,53\overline{1}$

10) $0,83\overline{1}$

Antworten

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Schreiben Sie jede sich unendlich wiederholende Dezimalzahl in eine rationale Zahl (Bruch) um.

Antworten

1) $0,551\overline{35}$

$f = 0,551\overline{35}$

$100.000f = 55135.\overline{35}$

$- 1.000f = 00551.\overline{35}$

$99000f = 54584$

$f = \frac{54584}{99000}$

2) $0,304\overline{1}$

$f = 0,304\overline{1}$

$10.000f = 3041.\overline{41}$

$- 100f = 0030.\overline{41}$

$9900f = 3011$

$f = \frac{3011}{9900}$

3) $35,1\overline{39}$

$f = 35,1\overline{39}$

$1.000f = 35139.\overline{39}$

$- 10f = 00351.\overline{39}$

$990f = 34788$

$f = \frac{34788}{990}$

4) $5,7\overline{4}$

$f = 5,7\overline{4}$

$100f = 574.\overline{4}$

$- 10f = 057.\overline{4}$

$90f = 517$

$f = \frac{517}{90}$

5) $8,151\overline{51}$

$f = 8,151\overline{51}$

$100.000f = 815151.\overline{51}$

$- 1.000f = 008151.\overline{51}$

$99000f = 807000$

$f = \frac{807000}{99000}$

6) $5,545\overline{9}$

$f = 5,545\overline{9}$

$10.000f = 55459.\overline{9}$

$- 1.000f = 05546.\overline{9}$

$9000f = 49914$

$f = \frac{49914}{9000}$

7) $6,413\overline{2}$

$f = 6,413\overline{2}$

$10.000f = 64132.\overline{32}$

$- 100f = 00641.\overline{32}$

$9900f = 63491$

$f = \frac{63491}{9900}$

8) $3,28\overline{9}$

$f = 3,28\overline{9}$

$1.000f = 3289.\overline{9}$

$- 100f = 0329.\overline{9}$

$900f = 2961$

$f = \frac{2961}{900}$

9) $0,53\overline{1}$

$f = 0,53\overline{1}$

$1.000f = 531.\overline{31}$

$- 10f = 005.\overline{31}$

$990f = 526$

$f = \frac{526}{990}$

10) $0,83\overline{1}$

$f = 0,83\overline{1}$

$1.000f = 831.\overline{1}$

$- 100f = 083.\overline{1}$

$900f = 748$

$f = \frac{748}{900}$

1. $\frac{54584}{99000}$

2. $\frac{3011}{9900}$

3. $\frac{34788}{990}$

4. $\frac{517}{90}$

5. $\frac{807000}{99000}$

6. $\frac{49914}{9000}$

7. $\frac{63491}{9900}$

8. $\frac{2961}{900}$

9. $\frac{526}{990}$

10. $\frac{748}{900}$