



Rewrite each infinitely repeating decimal as a rational number (fraction).

Answers

1) $0.55\overline{135}$

2) $0.30\overline{41}$

1. _____

3) $35.1\overline{39}$

4) $5.7\overline{4}$

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

5) $8.151\overline{51}$

6) $5.545\overline{9}$

9. _____

10. _____

7) $6.41\overline{32}$

8) $3.28\overline{9}$

9) $0.5\overline{31}$

10) $0.83\overline{1}$



Rewrite each infinitely repeating decimal as a rational number (fraction).

1) $0.55\overline{135}$

$$f = 0.55\overline{135}$$

$$100,000f = 55135.\overline{35}$$

$$- \quad 1,000f = 00551.\overline{35}$$

$$\hline 99000f = 54584$$

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

2) $0.30\overline{41}$

$$f = 0.30\overline{41}$$

$$10,000f = 3041.\overline{41}$$

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

$$\hline 9900f = 3011$$

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

3) $35.\overline{139}$

$$f = 35.\overline{139}$$

$$1,000f = 35139.\overline{39}$$

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

$$\hline 990f = 34788$$

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

4) $5.\overline{74}$

$$f = 5.\overline{74}$$

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

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

$$\hline 90f = 517$$

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

5) $8.15\overline{151}$

$$f = 8.15\overline{151}$$

$$100,000f = 815151.\overline{51}$$

$$- \quad 1,000f = 008151.\overline{51}$$

$$\hline 99000f = 807000$$

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

6) $5.54\overline{59}$

$$f = 5.54\overline{59}$$

$$10,000f = 55459.\overline{9}$$

$$- \quad 1,000f = 05546.\overline{9}$$

$$\hline 9000f = 49914$$

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

7) $6.41\overline{32}$

$$f = 6.41\overline{32}$$

$$10,000f = 64132.\overline{32}$$

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

$$\hline 9900f = 63491$$

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

8) $3.28\overline{9}$

$$f = 3.28\overline{9}$$

$$1,000f = 3289.\overline{9}$$

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

$$\hline 900f = 2961$$

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

9) $0.5\overline{31}$

$$f = 0.5\overline{31}$$

$$1,000f = 531.\overline{31}$$

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

$$\hline 990f = 526$$

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

10) $0.8\overline{31}$

$$f = 0.8\overline{31}$$

$$1,000f = 831.\overline{1}$$

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

$$\hline 900f = 748$$

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

Answers

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. $\frac{748}{900}$