



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

Answers

1)  $0.55\overline{135}$

2)  $0.30\overline{41}$

1. \_\_\_\_\_

2. \_\_\_\_\_

3)  $35.1\overline{39}$

4)  $5.7\overline{4}$

3. \_\_\_\_\_

4. \_\_\_\_\_

5)  $8.151\overline{51}$

6)  $5.545\overline{9}$

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

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)  $0.55\overline{135}$

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

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

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

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$$99000f = 54584$$

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

2)  $0.30\overline{41}$

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

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

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

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$$9900f = 3011$$

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

3)  $35.\overline{139}$

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

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

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

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$$990f = 34788$$

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

4)  $5.\overline{74}$

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

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

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

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$$90f = 517$$

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

5)  $8.15\overline{151}$

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

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

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

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$$99000f = 807000$$

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

6)  $5.54\overline{59}$

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

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

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

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$$9000f = 49914$$

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

7)  $6.41\overline{32}$

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

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

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

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$$9900f = 63491$$

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

8)  $3.28\overline{9}$

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

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

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

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$$900f = 2961$$

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

9)  $0.5\overline{31}$

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

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

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

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$$990f = 526$$

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

10)  $0.8\overline{31}$

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

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

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

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$$900f = 748$$

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

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