



Escriba cada decimal repetido infinitamente como un número racional (fracción).

1) $0.638\overline{1}$

2) $38.9\overline{4}$

3) $4.924\overline{8}$

4) $3.5\overline{1}$

5) $5.83\overline{7}$

6) $0.781\overline{4}$

7) $0.74\overline{3}$

8) $4.918\overline{8}$

9) $18.42\overline{9}$

10) $0.64\overline{8}$

Respuestas

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Escriba cada decimal repetido infinitamente como un número racional (fracción).

Respuestas

1) $0.638\overline{1}$

$$\begin{aligned} f &= 0.638\overline{1} \\ 10,000f &= 6381.\overline{1} \\ - 1,000f &= 638.\overline{1} \\ \hline 9000f &= 5743 \\ f &= \frac{5743}{9000} \end{aligned}$$

2) $38.9\overline{4}$

$$\begin{aligned} f &= 38.9\overline{4} \\ 100f &= 3894.\overline{4} \\ - 10f &= 389.\overline{4} \\ \hline 90f &= 3505 \\ f &= \frac{3505}{90} \end{aligned}$$

3) $4.924\overline{8}$

$$\begin{aligned} f &= 4.924\overline{8} \\ 10,000f &= 49248.\overline{48} \\ - 100f &= 492.\overline{48} \\ \hline 9900f &= 48756 \\ f &= \frac{48756}{9900} \end{aligned}$$

4) $3.5\overline{1}$

$$\begin{aligned} f &= 3.5\overline{1} \\ 100f &= 351.\overline{1} \\ - 10f &= 35.\overline{1} \\ \hline 90f &= 316 \\ f &= \frac{316}{90} \end{aligned}$$

5) $5.83\overline{7}$

$$\begin{aligned} f &= 5.83\overline{7} \\ 1,000f &= 5837.\overline{37} \\ - 10f &= 58.\overline{37} \\ \hline 990f &= 5779 \\ f &= \frac{5779}{990} \end{aligned}$$

6) $0.781\overline{4}$

$$\begin{aligned} f &= 0.781\overline{4} \\ 10,000f &= 7814.\overline{14} \\ - 100f &= 78.\overline{14} \\ \hline 9900f &= 7736 \\ f &= \frac{7736}{9900} \end{aligned}$$

7) $0.74\overline{3}$

$$\begin{aligned} f &= 0.74\overline{3} \\ 1,000f &= 743.\overline{43} \\ - 10f &= 74.\overline{43} \\ \hline 990f &= 736 \\ f &= \frac{736}{990} \end{aligned}$$

8) $4.918\overline{8}$

$$\begin{aligned} f &= 4.918\overline{8} \\ 10,000f &= 49188.\overline{8} \\ - 1,000f &= 4918.\overline{8} \\ \hline 9000f &= 44270 \\ f &= \frac{44270}{9000} \end{aligned}$$

9) $18.42\overline{9}$

$$\begin{aligned} f &= 18.42\overline{9} \\ 1,000f &= 18429.\overline{29} \\ - 10f &= 184.\overline{29} \\ \hline 990f &= 18245 \\ f &= \frac{18245}{990} \end{aligned}$$

10) $0.64\overline{8}$

$$\begin{aligned} f &= 0.64\overline{8} \\ 1,000f &= 648.\overline{8} \\ - 100f &= 64.\overline{8} \\ \hline 900f &= 584 \\ f &= \frac{584}{900} \end{aligned}$$

1.	$\frac{5,743}{9,000}$
2.	$\frac{3,505}{90}$
3.	$\frac{48,756}{9,900}$
4.	$\frac{316}{90}$
5.	$\frac{5,779}{990}$
6.	$\frac{7,736}{9,900}$
7.	$\frac{736}{990}$
8.	$\frac{44,270}{9,000}$
9.	$\frac{18,245}{990}$
10.	$\frac{584}{900}$