Recurring decimals to fractions

1

Write $0.\dot{4}$ as a fraction.

$10x = 4.444444\ldots$

$x = 0.444444\ldots$

$9x =$ _____

$x =$ _____

Answer _____

2

Write $0.\dot{7}$ as a fraction.

$10x =$ $\square.\square\square\square\square\square\ldots$

$x = 0.777777\ldots$

$9x =$ _____

$x =$ _____

Answer _____

3

Write $0.\dot{2}$ as a fraction.

$x = 0.222222\ldots$

$10x =$ _____

$9x =$ _____

$x =$ _____

Answer _____

4

Write $0.\dot{3}$ as a fraction in its simplest form.

Answer _____

5

Write $0.\dot{2}\dot{7}$ as a fraction in its simplest form.

$100x = 27.272727\ldots$

$x = 0.272727\ldots$

$99x =$ _____

$x =$ _____

Answer _____

6

Write $0.\dot{1}\dot{4}$ as a fraction.

$100x =$ $\square\square.\square\square\square\square\square\ldots$

$x = 0.141414\ldots$

$99x =$ _____

$x =$ _____

Answer _____

7

Write $0.\dot{4}\dot{5}$ as a fraction in its simplest form.

$x = 0.454545\ldots$

$100x =$ _____

$99x =$ _____

$x =$ _____

Answer _____

8

Write $0.\dot{0}\dot{6}$ as a fraction in its simplest form.

Answer _____

Recurring decimals to fractions *further practice*

9

Write $0.\dot{5}$ as a fraction.

Answer _____

10

Write $0.\dot{6}\dot{3}$ as a fraction in its simplest form.

Answer _____

11

Write $1.\dot{4}$ as a fraction.

Answer _____

12

Leo says $0.\dot{5} = \frac{5}{10}$. Use the method to show that Leo is wrong.

Answer _____

13

Which is bigger, $0.\dot{2}\dot{7}$ or 0.27? Explain how you know.

Answer _____

14

Write $2.\dot{1}\dot{8}$ as a fraction in its simplest form.

Answer _____

15

Write $0.1\dot{3}\dot{5}$ as a fraction in its simplest form.

Answer _____

16

Mia says $0.\dot{1}\dot{2} = \frac{12}{100}$.

Explain her mistake and write it as a fraction in its simplest form.

Answer _____