Repeating Decimals to Fractions - 1 Non-Repeating, 1 Repeating - Setup Equation

Name

1

$p = 0.89\overline{9}$

Set up the two equations that will help you change this repeating decimal into a fraction

A	B
$1000p = 89.\overline{9}$	$100p = 89.\overline{9}$
$10p = 8.\overline{9}$	$10p = 8.\overline{9}$

2

$t = 0.64\overline{4}$

Set up the two equations that will help you change this repeating decimal into a fraction

A	B
$100t = 64.\overline{4}$	$100t = 64.\overline{4}$
$10t = 6.\overline{4}$	$10t = 60.\overline{4}$

3

$x = 0.97\overline{7}$

Set up the two equations that will help you change this repeating decimal into a fraction

A	B
$100x = 97.\overline{7}$	$10x = 97.\overline{7}$
$10x = 9.\overline{7}$	$10x = 9.\overline{7}$

4

$p = 0.23\overline{3}$

Set up the two equations that will help you change this repeating decimal into a fraction

A	B
$100p = 23.\overline{3}$	$100p = 23.\overline{3}$
$1p = 2.\overline{3}$	$10p = 2.\overline{3}$

5

$p = 0.43\overline{3}$

Set up the two equations that will help you change this repeating decimal into a fraction

A	B
$100p = 43.\overline{3}$	$100p = 7.\overline{3}$
$10p = 4.\overline{3}$	$10p = 4.\overline{3}$

6

$n = 0.25\overline{5}$

Set up the two equations that will help you change this repeating decimal into a fraction

A	B
$100n = 25.\overline{5}$	$10n = 25.\overline{5}$
$10n = 2.\overline{5}$	$10n = 2.\overline{5}$

7

$x = 0.49\overline{9}$

Set up the two equations that will help you change this repeating decimal into a fraction

A	B
$100x = 49.\overline{9}$	$100x = 13.\overline{9}$
$10x = 4.\overline{9}$	$10x = 4.\overline{9}$

8

$q = 0.34\overline{4}$

Set up the two equations that will help you change this repeating decimal into a fraction

A	B
$100q = 34.\overline{4}$	$100q = 34.\overline{4}$
$10q = 3.\overline{4}$	$100q = 3.\overline{4}$