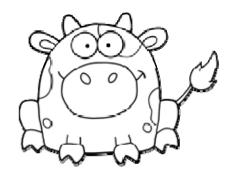
## Irrational Numbers and Decimal Expansion - Step-by-Step Lesson

- A. Write 0.8 as a fraction.
- B. Write the fraction  $\frac{43}{100}$  in decimal form.



## **Explanation:**

A. Every place value name dictates the fraction.

	0	8			
0	nes	tenths	hundredths	thousandths	ten- thousandths

If you were to name this number it would be eight-tenths.

If we write eight-tenths as a fraction it would be eight over ten or:

 $\frac{8}{10}$ 

B. We can interpret the division bar as "divided by". So this tells us 43 should be divided by 100.

.430

100 ) 43.000

- 400

300

<u>- 300</u>