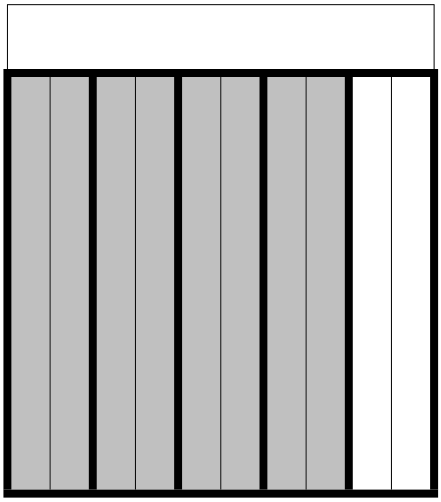
Objective:

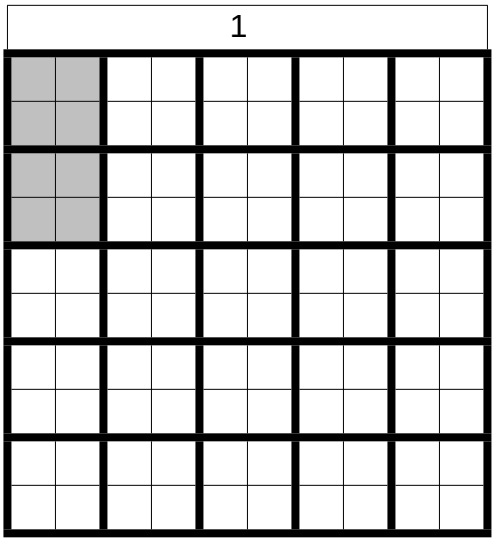
Remind students about the names of the place values to the right of the decimal, how to verbally express decimals in word form, and how they are written as fractions.

Decimal	Say (Word Form)	Fraction	Fraction with Powers of 10
0.1	one tenth	—	
0.01	one hundredth	$\frac{1}{100}$	
0.001	one thousandth	___	

Example 1:



Example 2:

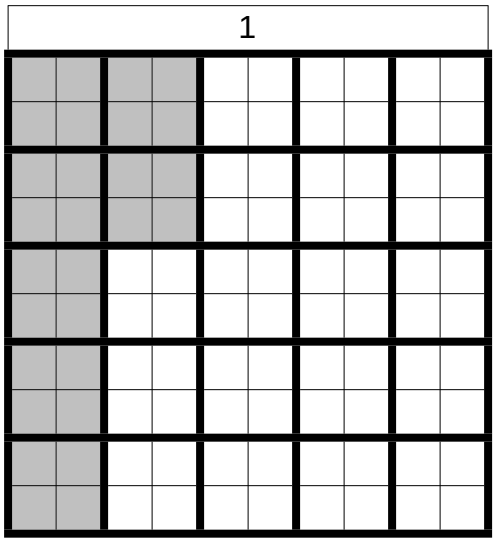


Example 4:

$0.28 = \frac{28}{100}$

$0.28 = \frac{2 \cdot 2 \cdot 7}{2 \cdot 2 \cdot 5 \cdot 5}$

$0.28 = \frac{7}{25}$



$\frac{28}{100} = \frac{7}{25}$

$0.28 = \frac{28}{100}$

$0.28 = \frac{28}{100} \div \frac{4}{4}$ GCF = 4

$0.28 = \frac{7}{25}$

CST Released Test Questions: *(Once students understand the conceptual model, move away from it and use only as needed to scaffold the concept.)*

$0.4 = \frac{4}{10}$

$0.4 = \frac{2 \cdot 2}{2 \cdot 5}$

$0.4 = \frac{2}{5}$

GCF = 2

$0.4 \quad \frac{4}{10}$

$0.4 \quad \frac{4}{10} \quad \frac{2}{2}$

$0.4 \quad \frac{2}{5}$

GCF = 4

$= \frac{\quad}{\quad}$

$= \frac{\quad}{\quad} \div \frac{\quad}{\quad}$

$= \frac{\quad}{\quad}$

Converting Fractions to Decimals

When the denominator is a 10, 100, or 1,000:

$$0.7 \quad \frac{7}{10}$$

Using division:

$\frac{5}{8}$ 5 8 $\overline{)\,.000}^{\,0.}$

Converting Decimals and Fractions into Percents

Decimal-to-percent

0.15 = 15%

2. 7 = 2 7%

0.0043 = 0.43%