Objective: Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute a given percent of a whole number. (5NS 1.2)



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	<u>1</u> 10	
0.01	one hundredth	$\frac{1}{100}$	
0.001	one thousandth	1 1000	

Example 1: (Model with direct instruction)

Express 0.8 as a fraction in simplest form.



Example 2: (Model with direct instruction) Express 0.08 as a fraction in simplest form.

1					

Example 4: (You Try!) Express 0.28 as a fraction in simplest form.



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

What is the decimal 0.4 written as a fraction?

What is the decimal 0.48 written as a fraction?

GCF = 2GCF = 4
$$0.4 = \frac{4}{10}$$
 $0.4 = \frac{4}{10}$ $=$ $0.4 = \frac{2}{15}$ $0.4 = \frac{4}{10} \div \frac{2}{2}$ $=$ $0.4 = \frac{2}{5}$ $0.4 = \frac{2}{5}$ $=$ $0.4 = \frac{2}{5}$ $0.4 = \frac{2}{5}$ $=$ $0.4 = \frac{2}{5}$ $0.4 = \frac{2}{5}$ $=$ $0.4 = \frac{2}{5}$ $=$ $0.48 = \frac{48}{100} \div \frac{4}{4}$ $0.48 = \frac{12}{25}$ $=$

Converting Fractions to Decimals

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

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

Using division:

$$\frac{5}{8} = 5 \div 8$$
 $\frac{0}{0.000}$ -4 8

Converting Decimals and Fractions into Percents

Decimal-to-percent conversions are made by moving the decimal point two places to the right.

0.15 = 15% 2. 7 = 2 7% 0.0043 = 0.43%