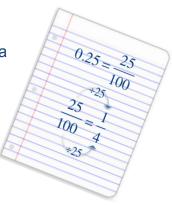
Writing Decimals as Fractions

In this tutorial, we'll explore solution paths for writing decimals as fractions.

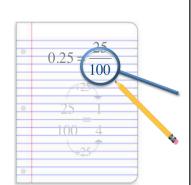
 How would I illustrate the value of each digit in the decimal 0.25 using the chart?

thousands	hundreds	tens	sauo	tenths	hundredths	thousandths

A student has written the decimal 0.25 as a fraction using the following solution path.



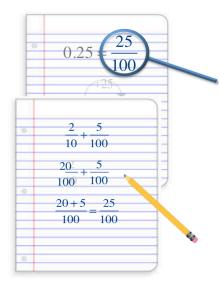
 How would I explain why the student has chosen 100 to be the denominator of the fraction at this step of their solution?





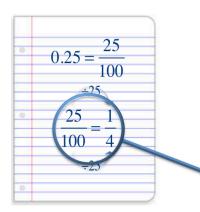
A classmate used the following calculation to illustrate how the fraction $\frac{25}{100}$ was determined.

- How would I explain each step of their calculation?
- How does their calculation verify the fraction $\frac{25}{100}$ is correct?

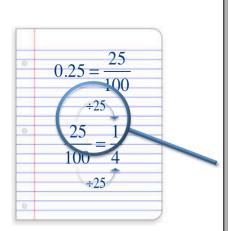


Continuing with the solution path...

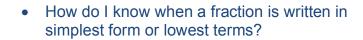
• How would I describe what the student is doing at this step of their solution?

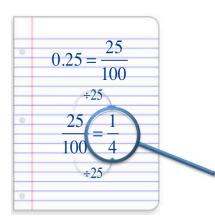


 How would I explain my thinking when determining the divisor used to perform this division step?









Let's review...

 How would I summarize my solution path for writing a decimal as a fraction in simplest form?

$$0.25 = \frac{25}{100}$$

$$\frac{25}{100} = \frac{1}{4}$$

$$\frac{25}{25} = \frac{1}{100}$$

How would I explain and demonstrate writing the decimal 0.9 as a fraction in simplest form?

How would I explain and demonstrate writing the decimal 0.162 as a fraction in simplest form?



Writing Decimals as Fractions-Skills Checklist



☑I can explain and demonstrate how I determine the place value of a digit in a decimal number

☑I can explain and demonstrate how I use place value to write a decimal as a fraction out of 10, 100, or 1000

☑I can explain and demonstrate how I determine the Greatest Common Factor for two or more numbers

☑I can explain and demonstrate how I write a fraction in simplest form



Writing Decimals as Fractions-Worksheet



