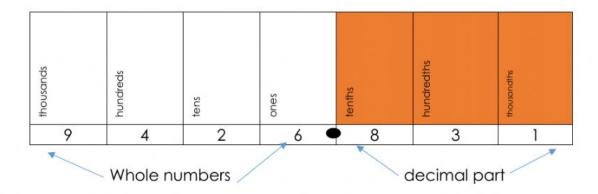


Place Value of Decimals Notes

<u>Decimals</u> are numbers that use place value and a <u>decimal point</u> to show tenths, hundredths, thousandths and so on. The number to the left of the decimal point is the whole number, while the number to the right is the decimal part and is less than 1.

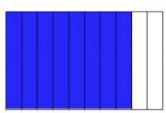


What is the value?

You can use a place value chart to find the value of each digit in a decimal.

Example

8 is in the tenths place, so the value of the eight is **0.8**.



Reading Decimals

- Say the number in <u>front</u> of the decimal point first.
- Read "and" as the decimal point.
- Say the number <u>after</u> the decimal and add the <u>place</u> of the last digit.

Examples

8.25 Read- eight **and** twenty-five hundredths

place of the last digit

13.469 Read-thirteen **and** four hundred sixty-nine thousandths

a place of the last digit

If there is a 0 in front of the decimal point, you can skip saying zero and simply say the number after the decimal point.

0.89 Read-eighty-nine hundredths

Expressing Decimals

A decimal can be written in:

Standard Form: 32.38

Word Form: thirty-two and thirty-eight hundredths

Expanded Form: 30 + 2 + 0.3 + 0.08

To write a decimal in expanded form, write the value of each digit.