

Study Guide  
Decimals . Math SOL 4.4

Learning Goals

- Represent and identify decimals using tenths, hundredths, and thousandths.
- Read decimals using place value.
- Round decimals to the nearest tenths, hundredths, and whole number.
- Compare decimals using  $>$  (greater than),  $<$  (less than), and  $=$  (equal to).

Place Value Chart

Ones	.	Tenths	Hundredths	Thousandths
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Read Decimals Using Place Value

37.4 is %thirty-seven and four tenths+

37.45 is %thirty-seven and forty-five hundredths+

37.458 is %thirty-seven and four hundred fifty-eight thousandths+

The decimal point is read as %and.+

Round Decimals to the nearest Tenths, Hundredths, and Whole Numbers

Round decimals just like whole numbers. Underline the digit in the place value to which you are rounding. If the digit to the right of this place value is 5 or greater, round up by adding one to the underlined digit. Otherwise, leave the underlined digit as is, and drop all digits to the right.

Examples: 5.629 rounded to the nearest tenth would be 5.6  
23.239 rounded to the nearest hundredth would be 23.24  
6.83 rounded to the nearest whole number would be 7

Compare Decimals

Compare decimals just like you compare whole numbers, but you may need to vertically line them up to be sure that you are comparing tenths with tenths, hundredths with hundredths, and thousandths with thousandths.

37.458  
37.47

The whole number parts (37) are equal. The tenths (4) are equal. The hundredths (5 and 7) are different therefore tell which number (37.47) is greater.

A zero can be added to the right end of a decimal number without changing the value of the number.

37.45  
37.450     These numbers are equal.

At Home

- Write numbers with decimals into the thousandths and practice reading them. You could create numbers by rolling dice or drawing cards.
- Parents can say numbers orally and students can write down what they hear in number form.