Decimals

A decimal is any number in our number system, a decimal base 10 place value system where each place is 10x bigger than the place to its right.

A decimal point is used to separate whole numbers from decimal fractions.

<table>
<thead>
<tr>
<th>Whole numbers</th>
<th>Decimal Point</th>
<th>Decimal fractions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hundreds</td>
<td>Tens</td>
<td>Ones</td>
</tr>
<tr>
<td>6</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**EXAMPLES:** Fractions converted to decimal fractions.

\[
\frac{1}{2} = \frac{5}{10} = 0.5
\]

\[
10\frac{1}{4} = 10\frac{25}{100} = 10.25
\]

\[
634\frac{3}{8} = 634\frac{375}{1000} = 634.375
\]

The way decimals are read varies between countries. Some examples below.

0.5  
- zero point five  
- five tenths

10.25  
- ten point two five  
- ten and twenty-five hundredths  
- ten and two tenths and five hundredths

634.375  
- six hundred and thirty-four point three seven five  
- six hundred thirty-four and three seventy-five thousandths  
- six hundred thirty-four and three tenths, seven hundredths and five thousandths

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